Rec 2/16/15

13

MTSU Clean Energy Initiative Project Funding Request

There are five (5) sections of the request to complete before submitting. See 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) 1-615-238-7391
E-mail : Les.Mayberr@mtsu.edu	Submittal Date 2-10-2015

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
a. Please provide a brief descriptive title for the project. **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.** c. List the source of project cost estimates. d. Provide a brief explanation in response to question regarding previous funding.
3a. Project Title : Change out inefficient Y-pattern valve (Co-Gen Plant)
3b. Project Cost Estimate : $7,600
3c. Source of Estimate : 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 Replace inefficient Y-pattern valve

4b. Scope: Benefit Statement Replacing this valve will greatly increase the energy efficiency for this system. The valve are not closing off; therefore, allowing backflow of steam from the main header to boiler. When steam flows backwards to the boiler tank it converts back to water and then is dumped back to the city water system. This loss of steam also is a loss of BTU's in our steam system.

4. Project Description (continued)

4c. Location of Project (Building, etc.) Co-Gen Plant

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.) TBD

5b. Annual Energy COST Savings ($) we are losing 123,943 gallons of water per year. This water is also treated water which increase the loss to MTSU. Estimated energy saving per year for replacing this valve is $1,400. ROI is 5.4 years.

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

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