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2/15/18

18

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 Norman Buck | |
| Department/Office Facilities Services | Phone # (Office)898.2435 |
| MTSU Box # 0032 | Phone # (Cell) |
| E-mail Norman.buck@mtsu.edu | Submittal Date 2/15/2018 |

| 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 | | |

| 3. Project Information |
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| <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: Replacement VFD for Business Aerospace HVAC return Fan (40 hp motor) Phase 4 |
| 3b. Project Cost Estimate \$7950 |
| 3c. Source of Estimate |
| Quote from Supplier |

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

New VFD for 40 hp motor in BAS hvac system

Remove existing VFD with bypass.

Install new VFD

Tie in electrical system

Program VFD ,startup and checkout operation

4b. Scope: Benefit Statement

The current VFD are obsolete and spare parts cannot be obtained for them anymore. Replacing with new VFD will provide new technology more energy efficient control of motor. Also, this will allow for a more reliable unit. This proactive replacement work will allow for better maintainability and a less costly retrofit should something go wrong with the existing units.

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| 4. Project Description (continued) |
| 4c. Location of Project (Building, etc.) Business Aerospace |
| 4d. Participants and Roles Facilities Engineer: Consult Facilities Technician: Monitor work Supplier: Provide material and labor to replace |
| 4e. Future Operating and/or Maintenance Requirements Facilities Technician: Mechanical adjustments to systems to optimize performance. |
| 4f. Additional Comments or Information Pertinent to the Proposed Project n/a |

| 5. Project Performance Information |
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| <p>Provide information if applicable.</p> <ol style="list-style-type: none"> Provide information on estimated annual energy savings stated in units such as kW, kWh, Btu, gallons, etc. Provide information on estimated annual energy cost savings in monetary terms. Provide information on any annual operating or other cost savings in monetary terms. Be specific. Provide information about any matching or supplementary funding opportunities that are available. Identify all sources and explain. |
| <p>5a. Estimated Annual Energy Savings (Estimated in kW, kWh, Btu, etc.)</p> <p>TBD</p> |
| <p>5b. Annual Energy COST Savings (\$)</p> <p>TBD</p> |
| <p>5c. Annual Operating or Other Cost Savings. Specify. (\$)</p> <p>TBD</p> |
| <p>5d. Matching or Supplementary Funding (Identify and Explain)</p> <p>n/a</p> |