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2/15/18

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## MTSU Clean Energy Initiative Project Funding Request

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

| 1. General Information                            |                           |
|---|---------------------------|
| Name of Person Submitting Request : KEITH LAWWELL |                           |
| Department/Office Building Services               | Phone # (Office) 898-2877 |
| MTSU Box # 32                                     | Phone # (Cell)            |
| E-mail: KEITH.LAWWELL@MTSU.EDU                    | Submittal Date: 02/15/18  |

| 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   |  |
|--|--|
| 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.  |  |
| 3a. Project Title: BAS SOUTH LOBBY LIGHTING PROJECT  |  |
| 3b. Project Cost Estimate: \$7,904.00  |  |
| 3c. Source of Estimate: Equipment manufacturer and RSMeans estimating data.  |  |

#### 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:

Replace (20) 175w Metal Halide lamps and ballasts and (9) 250w Metal Halide lamps and ballasts with existing fixtures with (20) 45w LED lamps and (9) 80w LED lamps.

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

The existing fixtures require the use of components prone to using high amounts of energy and costly to maintain. Metal halide lamps have an anticipated life span of 6,000 hours. LED lamps have an anticipated 60,000 hours.

| <b>4. Project Description (continued)</b>   |
|---|
| <p data-bbox="235 254 846 289">4c. Location of Project (Building, etc.)</p> <p data-bbox="235 327 769 363">Business/Aerospace South Lobby</p>   |
| <p data-bbox="235 512 656 548">4d. Participants and Roles</p> <p data-bbox="235 588 1073 623">Building Services personnel to purchase and install.</p>  |
| <p data-bbox="235 995 1122 1031">4e. Future Operating and/or Maintenance Requirement</p> <p data-bbox="235 1071 1284 1142">It is the expectation Maintenance involvement will decrease from current requests. Anticipated life span is 6 years for lamps.</p>   |
| <p data-bbox="235 1373 1312 1444">4f. Additional Comments or Information Pertinent to the Proposed Project:</p> <p data-bbox="235 1484 1354 1640">The BAS South Lobby is a communal area for students to meet between classes. The area has study areas, Provisions On Demand (POD), and is a pass through for students using the main pedestrian walk-way.</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.)

Estimated annual energy savings is 4.26 kWh

5b. Annual Energy COST Savings (\$)

Annual energy cost savings is \$1,855.00 for a ROI (Return on Investment) of 3 months.

5c. Annual Operating or Other Cost Savings. Specify. Additional operating costs are unknown at this time. Future requests are fact dependent.

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

Unknown.