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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 or mail to MTSU Box 57.

| 1. General Information | |
|---|----------------------------------|
| Name of Person Submitting Request Linda Hardymon | |
| Department/Office CEE | Phone # (Office) 615-904-8096 |
| MTSU Box # 57 | Phone # (Cell) 615-519-8096 |
| E-mail Linda.Hardymon@mtsu.edu | Submittal Date 9/25/2024 |

| 2. Project Categories (Select One) | |
|---|---|
| Select the category that best describes the project. | |
| <input type="checkbox"/> Energy Conservation/Efficiency | <input type="checkbox"/> Sustainable Design |
| <input type="checkbox"/> Alternative Fuels | <input type="checkbox"/> Other |
| <input checked="" 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. 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> <p>d. Provide a brief explanation in response to question regarding previous funding.</p> |
| 3a. Project Title Solar Picnic Table |
| 3b. Project Cost Estimate \$17500. |
| 3c. Source of Estimate EnerFusion |
| 3d. If previous funding from this source was awarded, explain how this request differs? There 4 solar tables on campus in the Honors Building and Cason Kennedy areas added from SCF funding. Looking to add another in another location on Campus either near SCI/Library or KUC with Campus Planning approval. |

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

This project will provide picnic tables with solar-powered outlets and will be placed in an area were MTSU students, faculty, staff, and visitors will be able to use the tables.

4b. Scope: Benefit Statement

This project will bring awareness not only to solar energy but also to recycling and poly-recycled materials that are integrated into the picnic table. Moreover, each solar umbrella will, at full capacity, generate 295 watts of clean power for its picnic table outlets reducing the load on other campus electrical outlets.

4. Project Description (continued)

4c. Location of Project (Building, etc.)

SCI/Library or KUC with final location approved by Campus Planning.

4d. Participants and Roles

Linda Hardymon

4e. Student participation and/or student benefit

This project will benefit students by providing a shaded outdoor area to study and a clean way to charge their phones and laptops.

4f. Future Operating and/or Maintenance Requirements

More solar tables may be purchased in the future.

4g. Additional Comments or Information Pertinent to the Proposed Project

N/A

5. Project Performance Information

Provide information if applicable.

- 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.

5a. Estimated Annual Energy Savings (Estimated in kW, kWh, Btu, etc.)

Each umbrella could save .295 kW per day

5b. Annual Energy COST Savings (\$)

Each umbrella could save \$.354 per day or 95.58 per academic year.

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

No associated utility cost for the umbrellas.

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

Energy and saving calculations: Finding kW: 295watts = .295kW * 12h = 3.54 kWh per day Finding Cost: (w/electrical cost \$.10/kWh): 3.54 kWh * \$.10/kWh = \$.354 saved per day per umbrella – 95.58 saved per academic year (assuming 270 days long) per umbrella.