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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](mailto:cee@mtsu.edu) or mail to MTSU Box 57.

| 1. General Information   |                                |
|--|--------------------------------|
| Name of Person Submitting Request<br>Evan Conley / <i>LINDA HARDYMON</i> |                                |
| Department/Office<br>Students For Environmental Action                   | Phone # (Office)<br>N/a        |
| MTSU Box #<br>N/a  | Phone # (Cell)<br>615-691-0431 |
| E-mail<br>etc2p@mtmail.mtsu.edu<br><i>linda.hardymon@mtsu.edu</i>        | Submittal Date<br>10/6/17      |

| 2. Project Categories (Select One)                      |  |
|---|--|
| Select the category that best describes the project.    |  |
| <input type="checkbox"/> Energy Conservation/Efficiency | <input checked="" 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.<br>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. <b>Any funding request is a 'not-to-exceed' amount. Any proposed expenditure above the requested amount will require a resubmission.</b><br>c. List the source of project cost estimates.<br>d. Provide a brief explanation in response to question regarding previous funding. |
| 3a. Project Title<br>BigBelly Solar Compactor  |
| 3b. Project Cost Estimate<br>\$5900  |
| 3c. Source of Estimate<br>BigBelly Solar, inc.   |
| 3d. If previous funding from this source was awarded, explain how this request differs?<br>This request is a continuation of a previous, highly visible initiative.  |

#### **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**

It would have to be decided on where the compactors will be placed to be most beneficial. The shipping and installation is included in the price estimate, as well as insurance for the compactors in case something were to go wrong. After the compactors are installed, the bins would have to be seldom emptied out by Custodial Services. There is also a non-compactor recycling unit attached to the compactor that would allow for convenient multi-stream recycling

Pricing breakdown:

Double Station Big Belly Compactor: \$4,240

Installation Costs: \$300

Lifecycle Software: \$1,360

Total: \$5900

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

This project would benefit the MTSU community because it is a very visible environmentally friendly solution to a problem on MTSU's campus: trash overflow. If we were to put these compactors in areas of high waste traffic, it would not only help beautify campus, but would also relieve pressure off of the shoulders of Custodial Services because they would not have to do trash pick-up as often. Since the waste portion of the units are compactors, it would also decrease the volume of waste going into our landfills. The recycling portion of the unit would make for more visible, modern, and easy recycling: an issue that has been consistently brought forth to the student government.

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| <b>4. Project Description (continued)</b>                                |  |
| 4c. Location of Project (Building, etc.)                                 | The compactor will be installed in the area between the parking garage and rec center.   |
| 4d. Participants and Roles   | Custodial Services will be in charge of pick-up of the landfill waste. MTSU Recycles will be in charge of pick-up for the multi-stream recyclables.  |
| 4e. Student participation and/or student benefit                         | Students will get the impression that their campus is environmentally conscious and modern. Students will also be strongly encouraged to continue to recycle since the recycling collection will be attached to the waste receptacle. These compactors are far more aesthetically pleasing than the current trash receptacles.                                   |
| 4f. Future Operating and/or Maintenance Requirements                     | The compactors have technology installed in them that detail when it is reaching capacity, and there is smart phone software that comes with the compactors that can relay this information to Custodial Services. This software also notifies Custodial Services on when the compactors are in need of repair, what needs to be repaired, and how to repair it. |
| 4g. Additional Comments or Information Pertinent to the Proposed Project | This project is a continuation of a very successful program. This program has proven to be worth the up front costs, and the addition of recycling to this project will provide a massive boost towards the already positive public appeal to these units.   |

**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.)

N/a

5b. Annual Energy COST Savings (\$)

Significantly less frequent pick-ups, and therefore less fuel costs.

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

Because the volume of the trash will decrease with the use of the compactors, MTSU's campus will have a little less difficulty transporting trash when the Murfreesboro landfill inevitably closes. Less operational costs for Custodial Services, since the trash pick-up will be less frequent.

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

N/a