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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 Donald Turner	
Department/Office Building Services	Phone # (Office) 615-494-8671
MTSU Box # 32	Phone # (Cell)
E-mail <a href="mailto:don.turner@mtsu.edu">don.turner@mtsu.edu</a>	Submittal Date 09/09/2024

2. Project Categories (Select One)	
Select the category that best describes the project.	
<input checked="" 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. 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> c. List the source of project cost estimates. d. Provide a brief explanation in response to question regarding previous funding.
3a. Project Title Sternberg Lights LED Retrofit - North LRC-Corlew-BAS Area
3b. Project Cost Estimate 35,000
3c. Source of Estimate Supplier and MTSU Building Services
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

Replacing 55 each of the current 140 watt Cosmopolous lamps from the Sternberg fixtures and modifying the fixtures to utilize a long life, energy-efficient 75 watt LED lamp that provides the same or greater foot-candles of light as the 140 watt bulb it is replacing.

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

The current lamp uses 140 watts of electricity per hour. Ther LED only requires 75 watts per hour of electricity to generate the same amount of light intensity. Therefore, each fixture retrofitted to use LED lamps will save over 273,000 watts of electricity per lamp per year (based on being lit an average of 10 hours per day for the entire year). That amounts to over 15,056,250 watt/hours, or 15,056 kilowtt hours (kwh) of electricity saved per year for all 55 lamps. The manufacturer's stated usefule life expectancy of each lamp is 100,000 hours. At 10 hour per day, this is 10,000 days of expected use, or over 27 years. This will reduce the quantity of resources needed for lamp maintenance, reduced utility costs, and produce a 92% reduction in the quantity of waste going to the landfill.

**4. Project Description (continued)**

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

Sternberg Lights LED Retrofit - North LRC-Corlew-BAS Area

## 4d. Participants and Roles

Building Services' technicians to purchase and install the retrofit kits, and the vendor will supply the materials.

## 4e. Student participation and/or student benefit

The nighttime campus of MTSU will be more continuously lit for the safety and security of the student population and the entire campus community. The savings generated from retrofitting to LED lamps will be used to fund other initiatives at MTSU to improve campus life for all students and to put a more sustainable foot forward into the future by reducing the university's aggregate carbon footprint.

## 4f. Future Operating and/or Maintenance Requirements

Due to their longevity, the future operating and maintenance costs are unclear.

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

The current Cosmopolous technology is being phased out providing an opportunity to embrace a more sustainable option for the future.

### 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.)

15,056 kwh of energy savings per year.

5b. Annual Energy COST Savings (\$)

\$1330.00

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

The total annual operating cost savings projected to be generated by retrofitting 55 current Sternberg light fixtures to LED is estimated to be in excess of \$2,151/year.

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

Facility Services to provide equipment and expertise to install the LED retrofit kits.



2753 COUCHVILLE PIKE STE 401  
 NASHVILLE TN 37217-5700  
 Phone: 615-743-3300  
 Fax:

To: MTSU-ELECTRICAL  
 1500 GREENLAND DR  
 MURFREESBORO TN 37132-3100  
 Attn: Don Turner  
 Phone: 615-898-2944  
 Email:  
 Fax: 615-904-8007

Date: 08/14/2024  
**Project Name: STERNBERG RETROFIT KITS**  
**GB Quote #: 0246788624**  
 Purchase Order Nbr:  
 Release Nbr:  
 Additional Ref#:  
 Revision Nbr:  
 Valid From: 08/14/2024  
 Valid To: 09/13/2024  
 Contact: Carey Smith  
 Email: Carey.Smith@graybar.com

**Proposal**

We appreciate your request and take pleasure in responding as follows

**Notes:**

Item	Quantity	Supplier	Catalog Nbr	Description	Price	Unit	Ext.Price
100	20	STERNBERG	VCOB-1130A-4 L30TS-MDL05 STERNBERG		\$549.00	1	\$10,980.00
<b>GB Part#:</b> VCOB-1130A-4L30TS-MDL05 STERNBERG  <b>Ship From:</b> Reship-Factory ***Item Note:*** * PRICING FOR 1 - 20 UNITS							
200	50	STERNBERG	VCOB-1130A-4 L30TS-MDL05 STERNBERG		\$539.00	1	\$26,950.00
<b>GB Part#:</b> VCOB-1130A-4L30TS-MDL05 STERNBERG  <b>Ship From:</b> Reship-Factory ***Item Note:*** * PRICING FOR 21-50 UNITS							
300	100	STERNBERG	VCOB-1130A-4 L30TS-MDL05 STERNBERG		\$530.75	1	\$53,075.00
<b>GB Part#:</b> VCOB-1130A-4L30TS-MDL05 STERNBERG  <b>Ship From:</b> Reship-Factory ***Item Note:*** * PRICING FOR 51 - 100 UNITS							

**Total in USD (Tax not included): \$91,005.00**

This equipment and associated installation charges may be financed for a low monthly payment through Graybar Financial Services (subject to credit approval). For more information call 1-800-241-7408 to speak with a leasing specialist.

This Graybar quote is based on the terms of sale in the EV2370 Master Agreement which can be found by clicking the link found at [https://www.omniapartners.com/hubfs/PUBLIC%20SECTOR/Supplier%20Information/Graybar/EV2370\\_Graybar\\_MAD\\_2017\\_12\\_20.pdf](https://www.omniapartners.com/hubfs/PUBLIC%20SECTOR/Supplier%20Information/Graybar/EV2370_Graybar_MAD_2017_12_20.pdf)

To: MTSU-ELECTRICAL  
1500 GREENLAND DR  
MURFREESBORO TN 37132-3100  
Attn: Don Turner

Date: 08/14/2024  
Project Name: STERNBERG RETROFIT KITS  
GB Quote #: 0246788624

### Proposal

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Signed: \_\_\_\_\_

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