

Rec 2/6/19

26¹

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 Connie Casha, Director of Early Learning Programs	
Department/Office College of Education, Early Learning Programs	Phone # (Office) 615-898-5506
MTSU Box # 93	Phone # (Cell) 615-545-0924
E-mail connie.casha@mtsu.edu	Submittal Date 2/6/19

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
<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 Energy Efficiency Lighting
3b. Project Cost Estimate \$37,145.50 \$20,551 for upgrade to interior space only, \$16,594.50 for exterior lighting
3c. Source of Estimate <small>Etreznik Energy Company completed a walk through of the Child Development classrooms, offices and observation booths as well as the adjoining hallways, resource storage rooms and indoor play room. See attach</small>
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

Replace existing florescent lighting located in main CDC area to include rooms 113, 114, 115, and 117 with LED lighting. These rooms house 2 offices, 2 classrooms for young children and two observation rooms and the adjoining hallway. Replace florescent lighting in hallways and the indoor playroom and storage room that adjoin to the main CDC area and are also used by the CDC children and families. An estimate to replace lighting on outside of building is included as a separate quote but could be considered part of this proposal.

4b. Scope: Benefit Statement

Replacement of the lighting system will produce savings on energy bill as well as use of energy in general. The LED lighting provides a more natural lighting system and will be especially helpful in the offices which do not have any windows. The LED lights will provide a more aesthetically pleasing look as well. The time required to replace burned out bulbs is reduced as well.

4. Project Description (continued)	
4c. Location of Project (Building, etc.)	The Child Development Center is located in the Fairview building. The CDC has its own identified space in one area and then shares the hallways leading to our storage and indoor play area. Both areas are included in this proposal. An estimate to replace lighting on outside of building and in the parking lot is included as two separate proposals.
4d. Participants and Roles	Facilities services would assist with project coordination with group chosen to complete the work. Amanda Witt has met with Chris Copeland with Entrenzik regarding this project. An addendum to the Entrenzik proposal is attached to cover work not done by Entrenzik.
4e. Student participation and/or student benefit	MTSU students enrolled in College of Education courses are at the Child Development Center on a daily basis along with federal work study students and graduate assistants. Students from other fields of study such as psychology, speech and language, nursing, social work, exercise health, and behavioral health also use the CDC for a variety of observation, internships and research studies.
4f. Future Operating and/or Maintenance Requirements	Maintenance requirements includes replacement of light bulbs. This is reduced from current maintenance needs due to longer lasting light bulbs.
4g. Additional Comments or Information Pertinent to the Proposed Project	Staff, students, families, and children who works and participate in classes in the Child Development Center would benefit from this lighting system. This building has not been updated or remodeled in some time and this would be a nice improvement to the environment. It would be nice to expand this request to other parts of the building for complete energy conservation as well as overall aesthetics of the building.

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.)

See attached. Based on information from similar proposal approved last year for lighting at Ann Campbell we would reduce our kWh usage by 49%.

5b. Annual Energy COST Savings (\$)

see 5a. Based on information from similar proposal approved last year for lighting at Ann Campbell we would see almost 49% reduction in costs.

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

see 5a. Based on information from similar proposal approved last year for lighting at Ann Campbell maintenance savings for one year for that project was estimated at \$604. This is a much larger project and would result in even larger savings.

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

N/A



**169 Creamer Drive
Alpharetta, GA 30004**

Name / Address

Middle Tennessee State University
Amanda Witt
PO Box 32
Murfreesboro TN 37132

Ship To

Middle Tennessee State University
Amanda Witt
820 Fairview Dr.
Murfreesboro, TN 37132

Estimate

Date: 2/5/2019
Estimate #: 2541

**169 Creamer Drive
Alpharetta, GA 30004**

Account #: Project

Rep: CC

JOB: Opt 2 Front Lot RRoo...

P.O. No.: Terms: Net 15

Item	Description	Qty	U/M	Rate	Total
EWP-10050-1	Wall Pack - 100W, 5000K, 13,000L, 120-277V, Photo Cell Included, UL/DLC Listed, 5 Year Warranty.	5	ea	199.00	995.00T
EPL-15050-135	LED Pole Light - 150W, 5000K, 17,000L, 120 Degree, 120-277V, Slip-fitter Knuckle, UL/DLC Listed, 5 Year Warranty.	4	ea	299.00	1,196.00T
VT4-40-50-MV	LED Vapor Tight - 40W, 5000K, 4200L, UL/DLC Listed, 5 Year Warranty.	3	ea	135.00	405.00T
EWP-2050-1	Etreznik Wall Pack - 20W, 5000K, 2500L, 120-277V, UL/DLC Listed. 5 Year Warranty.	1	ea	65.00	65.00T
EP24-4040A211	Etreznik Panel 2X4 - 40W, 4000K, 5000L, 0-10V Dimmable, UL/DLC Listed, 5 Year Warranty.	4	ea	109.00	436.00T
ELT291Q505212	2 Etreznik 3Ft Tubes - 9W, 1400L, 4000K, Frosted Lens, Single Ended Power, 0-10V Dimmable, External Power Supply, UL/DLC Listed, 5 Year Warranty.	2	ea	29.00	58.00T
Installation	LED Installation	1		1,450.00	1,450.00T
Miscellaneous	Power Lift Equipment	1		1,900.00	1,900.00T

This option includes the main hall restrooms, exterior entrance lights, remaining wall packs and front lot parking pole lights.
Note: If both options are accepted together one power lift fee can be deleted.

This is a proposal only and is not a commitment to finance. This proposal is subject to credit review and approval and proper execution of mutually acceptable documentation. Rates are subject to change to the rates in effect at the time a firm commitment is made and based upon availability. Rates do not include shipping or sales tax unless otherwise stated.

Phone #	Fax #	E-mail	Web Site
678-771-8367	678-807-1900	info@etrenzik.com	www.etrenzikLED.com
Subtotal			\$6,505.00
Sales Tax (0.0%)			\$0.00
Total			\$6,505.00



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Alpharetta, GA 30004**

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Middle Tennessee State University
Amanda Witt
PO Box 32
Murfreesboro TN 37132

Ship To

Middle Tennessee State University
Amanda Witt
820 Fairview Dr.
Murfreesboro, TN 37132

Estimate

Date: 2/1/2019
Estimate #: 2540

Account #

Account #

Project

Rep

Terms

P.O. No.

JOB

Opt 1 PlayGr & Rear ...

Net 15

CC

Item	Description	Qty	U/M	Rate	Total
EWP-10050-1	Wall Pack - 100W, 5000K, 13,000L, 120-277V, Photo Cell Included, UL/DLC Listed, 5 Year Warranty.	2	ea	199.00	398.00T
EPL-15050-135	LED Pole Light - 150W, 5000K, 17,000L, 120 Degree, 120-277V, Slip-fitter Knuckle, UL/DLC Listed, 5 Year Warranty.	8	ea	299.00	2,392.00T
Miscellaneous	Double Bull Horn for wood poles	4		180.00	720.00T
Installation	LED Installation	1		850.00	850.00T
Miscellaneous	Power Lift Equipment	1		1,900.00	1,900.00T
	This option includes replacing 4 double pole lights in the rear parking area and two wallpacks in the playground area.				

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Subtotal	\$6,260.00
Sales Tax (0.0%)	\$0.00
Total	\$6,260.00

Phone #	Fax #	E-mail	Web Site
678-771-8367	678-807-1900	info@etrenzik.com	www.etrenzikLED.com

Fairview LED Lighting Upgrade

	QTY	TOTAL	10% Contingency	TOTAL W/ CONTINGENCY
FF&E				
CONSTRUCTION				
Project Construction (NEW Construction)				
Rework / patch ceiling (2 guys)	1	\$ 2,163.75	\$ 120.00	\$ 2,283.75
Patch Paint as needed	1	\$ 1,095.63	\$ 61.25	\$ 1,156.88
Construction Contractors				
Entrenzyk	1	\$ -	\$ -	\$ -
	1	\$ -	\$ -	\$ -
LED Lighting Upgrade - CDC Space (classrooms, Offices and big room)	1	\$ 18,970.68	\$ 1,580.89	\$ 20,551.57
LED Lighting Upgrade - Playground and rear parking area	1	\$ 7,512.00	\$ 626.00	\$ 8,138.00
LED Lighting Upgrade - Main hall / restrooms / exterior entrance lights / wall packs and front parking lot	1	\$ 7,806.00	\$ 650.50	\$ 8,456.50
Sub Total		\$ 37,548.06	\$ 3,038.64	\$ 40,586.70
Cost of Project (Excludes Contingency)		\$ 37,548.06		Total Estimate



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PO Box 32
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Ship To
Middle Tennessee State University
Amanda Wit
CDC Sppace LED Upgrade
820 Fairview Dr
Murfreesboro TN 37132

Estimate
Date
2/1/2019
Estimate #
2539

JOB	P.O. No.	Terms	Rep	Account #	Project
CDC Space		Net 15	CC		

Item	Description	Qty	U/M	Rate	Total
EP24-4040A211	Etrenzik Panel 2X4 - 40W, 4000K, 5000L, 0-10V Dimmable, UL/DLC Listed, 5 Year Warranty.	91	ea	94.00	8,554.00T
EPL2230W1A1401	Etrenzik Panel - 2X2, 30W, 3750L, 4000K, 0-10V Dimmable, UL/DLC Listed, 5 year Warranty	6	ea	79.00	474.00
DF10P-C1	0-10v Dimmable Wall Switch	3	ea	39.00	117.00T
Miscellaneous 22743	BBU Kit for LED panel Lights	5	ea	157.80	789.00T
ELT4121P501112	EMR LED EXIT BBU WH HOUSING RED Lettering	2	ea	29.00	58.00T
ELT291Q505212	Etrenzik 4FT Tube - 12W, 1800L, 4000K, Frosted Lens, Single Ended Power, Non Dimmable, UL/DLC Listed, 5 Year Warranty.	6	ea	19.00	114.00T
EWHIP-2	2 Etrenzik 2Ft Tubes - 9W, 1400L, 5000K, Frosted Lens, Single Ended Power, 0-10V Dimmable, External Power Supply, UL/DLC Listed, 5 Year Warranty.	4	ea	29.00	116.00T
Miscellaneous Installation	Etrenzik Whip 2Ft - 18AWG Wire (white & Black) 600V, 1 Lowprofile T8/T12 Tombstone. Dimmer Control Cable Plenum 18/2 LED installation	10 1 1	ea	2.69 110.00 5,450.00	26.90T 110.00T 5,450.00T

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Phone #	Fax #	E-mail	Sales Tax (0.0%)
678-771-8367	678-807-1900	info@etrenzik.com	Total
Page 1	Web Site	www.etrenzikLED.com	



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Amanda Witt
PO Box 32
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Ship To

Middle Tennessee State University
Amanda Witt
CDC Sppace LED Upgrade
820 Fairview Dr
Murfreesboro TN 37132

Estimate

Date: 2/1/2019
Estimate #: 2539

JOB	P.O. No.	Terms	Rep	Account #	Project
CDC Space		Net 15	CC		

Item	Description	Qty	U/M	Rate	Total
	<p>Etrenzik proposes to upgrade the existing lighting with LED panel lights for the CDC area as noted on drawings. This will include the large event room, storage area and kitchen. Etrenzik has provisions for five battery back units for five of the LED panel lights, if more are found during the installation Etrenzik will provide a written quote for any additional work required. Etrenzik will replace the two exit signs in the large event room with emergency exit combo units to provide additional emergency lighting.</p> <p>Room 114: This room will be equipped with two dimmer switches to allow separate control of the two front and 3 rear lights in the room. One of the existing lights is a wrap which Etrenzik will replace with a 2x2 Panel light. Any necessary ceiling grid and tile alterations will be completed by MTSU staff.</p> <p>Room 116: This room will be equipped with one dimmer switch to control of the rear three lights in the room. One of the existing lights is a wrap which Etrenzik will replace with a 2x2 Panel light. Any necessary ceiling grid and tile alterations will be completed by MTSU staff.</p> <p>The lights in the class room will be retrofitted with four, and two, foot tubes as the fixtures require.</p> <p>All old lighting will be removed from the site and recycled by Etrenzik. No outdoor lighting is included on this quotation.</p>				

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<p>Phone # 678-771-8367</p>	<p>Fax # 578-807-1900</p>	<p>E-mail info@etrenzik.com</p>
<p>Page 2</p>	<p>Web Site www.etrenzikLED.com</p>	

Linda Hardymon

From: Connie Casha
Sent: Wednesday, February 06, 2019 3:42 PM
To: Center for Energy Efficiency
Cc: Stephanie Bourgault
Subject: FW: Clean Energy Project funding request for LED lighting
Attachments: CDC LED lighting request.pdf; FAIR LED Lighting Replacement 02.06.19 Estimate[1].pdf; Est_2539_from_Etrenzik_LED_2624[1].pdf; Est_2540_from_Etrenzik_LED_2624 Opt 1[1].pdf; Est_2541_from_Etrenzik_LED_2624 Opt 2[1].pdf

CEE

Please find attached a proposal for clean energy project funding. I have also attached the following:

FAIR LED lighting- an addendum to the estimates below.

Est 2539 is for the replacement of lighting for CDC classrooms, offices and storage space.

Est 2540 and 2541 are for replacement of lighting on exterior building and parking areas.

Thank you in advance for consideration of this proposal.

Connie

Connie Casha | Director
Early Learning Programs
MTSU Box 93
Murfreesboro, TN 37132
615-898-5506