

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.

Phone # (Office)
615-898-2393
Phone # (Cell)
615-478-4662
Submittal Date
9/27/2023

2. Project Categories (Select One)						
Sel	Select the category that best describes the project.					
V	Energy Conservation/Efficiency		Sustainable Design			
	Alternative Fuels		Other			
	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.
- d. Provide a brief explanation in response to question regarding previous funding.

3a. Project Title

Murphy Center Auxiliary Gym 2 LED Lighting Project

3b. Project Cost Estimate \$32,013.92

3c. Source of Estimate

Carter Electric Services, LLC

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

- 1. Remove 55 existing high bay fixtures and dispose.
- 2. Furnish and install 55 High Bay Lights
- 3. Parts and materials include conduit, boxes, supports, wire, and devices.

4b. Scope: Benefit Statement

Currently, the lights are 400 watts per fixture for 55 fixtures, burn 22,000 watts. The new LED light will be 100 watts per fixture for 55 fixtures, and will burn on 5,500 watts when they are. If we change the current fixtures to LED, we will save energy. Currently, these lights stay on 20 hours a day. With the new fixtures, we would be saving energy and money (22,000w x 20hrs = 440,000) (5,500w x 20hrs = 110,000).

4. Project Description (continued)

4c. Location of Project (Building, etc.)
Murphy Center Auxiliary Gym 2

4d. Participants and Roles

Boniface Amuzu - Murphy Center Complex Director Daryl Simpson - Associate Athletic Director Dr. Chandra Story - Health & Human Performance Chair Forrest Higginbotham - Building Services

Dr. Rita Whitaker - Building Services

4e. Student participation and/or student benefit

Health and Human Performance Activity Classes, MTSU Athletics, future events scheduled by MTSU and External Departments.

4f. Future Operating and/or Maintenance Requirements

There will be no maintenance required for these lights forthe next five years. These lights will not lose any lumens when they are turned on, and will turn on immediately, without having to war up like current metal halide fixtures in the gym.

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

Each year before the fall semester starts, Facilities Services (FSD) replaces and repairs the lights in this gym for Health and Human Performance classes and before the three commencement ceremonies. FSD is over there in August, December, and May. We are taking the lift over there and replacing and repairing the same lights over and over again. These new lights will not give off the heat that metal halide lights give off.

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.)

115,500 kWh

5b. Annual Energy COST Savings (\$)

\$8,532.15 for a Return on Investment (ROI) which is 3.8 years.

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

These lights will have a 5 year warranty on them.

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

N/A

Middle Tennessee State University Electrical Maintenance and Repair

Attachment A - Pricing Template - Job Estimate

Instructions:

Estimates I for all non-emergency lobs 1:

Part 1: Company Information/Job Information

Part 2: Job Estimate; providing an estimate for each line for labor and parts as applicable

Part 3: Specialty Job Requirements

Part 5: Contractor Signature

	PAR	T 1: COMPANY INFORMA	TION / JOB INFO	RMATION (re	quired)				
Company Name:	CARTER ELI	ECTRICAL SERVICES, LLC		Company Contact Name:		Greg Carter			
Contact Email:	<u>gc</u>	arter@c-e-s-llc.net		Contact Phone Number:		615-970-0793			
Date of Estimate/ Quote:		9/15/2023		Requesting Agency:		Construction & Renovation De		Department	
Contract #:				Job Order #:					
C	ounty: Rutherford			Requesting	Agency				
Job Location:	MTSU	MTSU - AUX GYM #1 & #2			Contact Name & Number:		Dr. Rita Whitaker		
Job Description:		MTSU - AU	X GYM #1 & #2 -	#2 - HIGH BAY LIGHTINS					
Description of the Work to be Performed: (1)	ectrical Installation - AUX Remove (55) Existing High stallation - AUX GYM #2 Remove (55) Existing High	Bay Lights and Dispose (2)		all (55) High B	ay Lights				Electric
Estimated Days to S	tart Job (after receipt of re	equest): PART 2: JOB ESTIMATE	trequired for E			mplete Job:	<u> </u>	_	
ITEM		ACT ITEM ID #	QUANTITY	UNIT		RICE PER UNIT	NU	EXTE	NDED PRICE
AUX GYM #1 Technician, Regular Tim		ectrician	126	HR	\$		42 00	\$	5,292.0
lelper, Regular Time	Ar	pprentice	126	HR	\$	25.00		\$	3,150.0
Parts & Materials (See ttached)	Conduit,Boxes, Si	upports, Wire & Devices	1/	LOT	\$	23,571.92		\$	23,571.9
AUX GYM #2		ectrician	126	HR	\$	42.00		\$	5,292.0
Helper, Regular Time		prentice	126	HR \$		25.00	\$	3,150.0	
Parts & Materials (See	Conduit Boxes, Si	oports, Wire & Devices 1		LOT \$ 23,571.92		571.92	\$	23,571.9	
ittached)							\$		
		s as needed in attachment and materials list in attachm	ont**		Total Esti	mated Price fo	or Job:	\$	64,027.8
	Add breakdown or parts	PART 3: SPECIALTY JO		ITS (required		- 20110		(ME	v.di
Will job require use o	f specialized equipment?	No Will job require use of a Subcontractor?			Will job require use of a Subcontractor?			No	
Will job require	No	11 8	Will job require off-site work?					No	
		nswered "yes" to any questio							
		SCRIPTION OF WORK TO B		IIII GUOTE SA	-1/			JOB P	RICE
stallation - AUX GYM #	High Bay Lights and Dispose (⊟ectrical	\$		64,027.8
THE RESERVE OF THE PARTY OF THE	ber of days Firm Quote is	valid:							3
Contractor's Prin	ited Name: Greg Cart	PART 5: CONTRACT	OR SIGNATURE	(required)			-1		
Contractor Signat	16		15/23						
Contractor Signal	erug.	91	10,20						

AUX GYM #1

Description	Quantity	Total Material	Total Hours
1/2 OR 3/4" CONDUIT+BOX SUPPORT - S	S 55	264.93	9.67
WIRE CONN YEL	165	21.42	11.80
WIRE CONN RED	165	28.79	14.16
Demo - High Bay Fixtures	55	919.81	42.47
SO Cord & Cord Cap	55	201.76	2.95
4" SQ BLANK COVER	55	107.38	2.95
GROUND SCREW W/ INSUL #12 LEAD	55	158.38	3.54
FIXTURE HANGER WIRE	110	129.79	0.00
#14/3C - 6' FIXTURE WHIP	55	396.58	29.49
Man Lift	2	2228.70	4.40
Hi Bay Light	50	16518.60	117.98
Hi Bay Light EMERG	5	2595.78	11.80
Totals		23571.92	251.20

AUX GYM #2

<u></u>			
Description	Quantity	Total Material	Total Hours
1/2 OR 3/4" CONDUIT+BOX SUPPORT -	S 55	264.93	9.67
WIRE CONN YEL	165	21.42	11.80
WIRE CONN RED	165	28.79	14.16
Demo - High Bay Fixtures	55	919.81	42.47
SO Cord & Cord Cap	5 5	201.76	2.95
4" SQ BLANK COVER	55	107.38	2.95
GROUND SCREW W/ INSUL #12 LEAD	55	158.38	3.54
FIXTURE HANGER WIRE	110	129.79	0.00
#14/3C - 6' FIXTURE WHIP	55	396.58	29.49
Man Lift	2	2228.70	4.40
Hi Bay Light	50	16518.60	117.98
Hi Bay Light EMERG	5	2595.78	11.80
Totals		23571.92	251.20