

#67

COMPLETE

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Q1

Agency Name:

City of Ann Arbor

Q2

Project Primary Contact Name:

Trevor Brydon

Q3

Applicant Phone and Email:

734.794.6410 x43671, tbrydon@a2gov.org

Q4

Project Name:

DTE-Ann Arbor Streetlight LED Conversion

Q5

Road

Project type:

Q6

Respondent skipped this question

For Transit Projects, are you requesting capital or operating (new or expanded service) funds?

Page 2

Q7

Work Description: Short description of work being performed. Please provide enough information for eligibility to be determined.

The DTE Streetlight LED Conversion project will replace over 4,000 low efficiency HID Mercury Vapor and High Pressure Sodium streetlight fixtures with high-efficiency LED streetlight fixtures. The replacement LED fixtures will be 1.2 to 3 times more efficient than their predecessors. For the project to proceed the City of Ann Arbor will participate in a portion of the construction cost for new fixtures installation. The installation is simple, requiring no design or electrical reconfiguration. All fixtures will be converted in a single year.

Q8

Project Limits Short description where the project is located

DTE Streetlights are located Citywide. A map of DTE Streetlight locations is included in the attached documents.

Q9

Project Cost (in dollars):

Federal	980000
State	0
Local (20 percent local match is required)	245000
Total	1225000

Q10

Local match source(s)

City of Ann Arbor Climate Millage

Q11

2024

Which fiscal year are you requesting funds for? (Check multiple years if project year is flexible)

Q12

Emissions Calculations (CO2 reduced in kg/day) Must attach calculation worksheet to application:

3,417.44 kg/day of CO2 reduced

Q13

In a brief narrative, please highlight any additional information about the proposed project and how it will benefit the community and region.

BENEFIT TO CITY AND REGION:

One of the specific goals of A2Zero, Ann Arbor's Carbon Neutrality Plan, is to improve energy efficiency across the city by transitioning all of Ann Arbor's public streetlights and traffic signals to LED lights by 2030. Energy efficiency is an under-recognized but very effective method of reducing ongoing energy waste. Energy waste distorts the dedication of city resources towards the operation of inefficient equipment rather than other city and regional priorities.

This project also aligns with the Ann Arbor's Moving Together Towards Vision Zero transportation plan's goal to increase safety and security for all people walking and biking in the city. The DTE-owned streetlights, with older, less-efficient bulbs are less reliable than the City's other streetlights. They are the subject of a disproportionate number of complaints and service calls. Unreliable lighting contributes to a darker, less inviting evening public environment across the city.

Once these lights are replaced, they will bank the efficiency in perpetuity. Until a superior, more efficient lighting technology is available to make further efficiency gains, these bulbs will continue to use less energy, night after night, taking a significant and measurable slice of emissions and needless energy demand off the region's air quality budget. Furthermore, this may serve as a demonstration project for other governments throughout Southeast Michigan with DTE streetlight assets to make the same efficiency gains without extensive design and construction phases.

Q14

Document Center - Emissions Calculations

24DTEStreetlightLEDEmissionsCalc.pdf (645.6KB)

Q15

Document Upload - Signature Page

SignaturePage.pdf (60.8KB)

Q16

Respondent skipped this question

Document Upload - Sponsorship Agreement

Q17

Document Upload - Project Sketch

24DTEStreetlightLEDNarrative_Letter.pdf (702KB)
