



**TOWN OF CARRBORO
REQUEST TO APPLY FOR GRANT FUNDS**

Department: Town Manager **Staff Contact:** Amy Armbruster

Project Name:

Clean Fuels Advanced Technology Grant - Electric Vehicle grant

Funding Source:

CFAT - Clean Technology Center pass-through from State DEQ

Total Project Costs: \$732,281 to pay for EVs + APU proposed in FY26 budget w/ \$104,467 reimbursed by grant

Application Due Date: 03/14/2025 **Amount of Request:** \$ 732,281.00

Anticipated Award Notification Date: June 2025

New (N) or Recurring (R) Grant: N

Will the program require funding after the grant expires? Yes No

If so, how much and how will it be funded?

Does this grant have a cost share requirement? Yes No

Total Amount of Cost Share Required: \$ 637,813

Cash Share Amount: \$ 637,813 **In-Kind Share Amount:** \$ _____

If the cost share is cash, are the funds budgeted? Yes No N/A

(If so, provide account number)

If cost share is In-Kind, please describe the services.

The CFAT grant can be used to defray the cost differential between an EV and a gas-powered vehicle. It covers 75% of that cost delta. Also be used to cover 75% of the cost of the APU for the fire engine with a 25% match.

Has the department received funding from this agency/organization in the past? Yes No

If so, list project name(s), amount(s), and date(s).

Project Name(s): _____

Project Amount(s): _____

Project Date(s): _____

Project Summary:

Grant funding to defray the cost differential between gas-powered and electric vehicle purchase.

Request: Vehicles scheduled for replacement with an electric vehicle in FY26 include 11 F-150s with F-150 Lightnings and 2 sedans with Mach-es.

The cost differential between an electric light duty vehicle and a gas-powered vehicle is: \$8,603. This grant would cover 76% of that cost or \$6,538.

The cost differential between an electric sedan and a gas-powered vehicle is: \$7,912. This grant would cover 76% of that cost or \$6,013. Converting Fire Department engine with an Auxiliary Power Unit so that it can idle using a battery rather than polluting diesel engine. The APU cost is \$17,000. The grant would cover 76% or \$12,920.

Grant funds will be used for the following: (check all that apply)

Equipment

Supplies

Program Expenses (specify)

Printing

Personnel: Current Staff. No. of Staff _____ **No. of Hours** _____

Personnel: Hire additional staff No of Positions _____

Capital (land, building, vehicles, etc.)

Contracted Services: _____

Other _____

Describe the need that gave rise to the request. Provide quantitative data to justify need (workload data, ratis, etc.).

The Town's Climate Action Plan and Carrboro Connects Comprehensive Plan sets the Town on a path to carbon neutrality.

Converting the fleet to zero emission electric vehicles and reducing the use of gas and diesel are key to achieving these goals.

Describe how the grant will address the need identified.

The vehicles selected for this grant were slated for replacement in the FY26 CIP. The Public Works Fleet team have pilot tested an F-150 Lightning and determined that they will meet the duty cycle of the existing gas-powered fleet vehicles. The two Mach-es have been used by other municipalities, including the City of Durham, with positive results.

The APU for the FD engine is estimated to reduce diesel usage while idling by 60-80% compared to idling using the main engine. This will decrease emissions and contribute to improved air quality, reduce costs, and potentially extend the vehicle's lifespan by reducing wear and tear on the main engine.

Describe return on investment and the benefit(s) of this grant. Provide, to the extent that you can, cost data that shows our return on investment.

The total cost of owning and maintaining an electric vehicle is generally less than an equivalent gas-powered vehicle due to significantly lower fuel costs (electricity), reduced maintenance costs, and higher resale value.

The APU would also save money due to reduced fuel costs and potentially reduced wear and tear.

Because these vehicles were slated to be replaced in FY26, the grant will essentially fund the cost differential between electric vehicles and gas-powered vehicles and 75% of the cost of the APU.

Describe how the grant supports Town Council's strategic priorities and identify the specific initiative(s).

The Town's Climate Action Plan and Carrboro Connects Comprehensive Plan sets the Town on a path to carbon neutrality.

Converting the fleet to zero emission electric vehicles and reducing the use of gas and diesel are key to achieving these goals.

Will this project duplicate or compete with another service or program provided by the Town of Carrboro or other local agency?

No

Approved by Department Head: Signed by: *Amy Armbuster* **Date:** 2/18/2025
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Approved by Grant Manager: DocuSigned by: *Wendy Welsh* **Date:** 2/21/2025
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Approved by Chief Finance Officer: Signed by: *Chaz Offenburg* **Date:** 2/24/2025
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Approved by Town Manger: DocuSigned by: *Patrice Toney* **Date:** 2/19/2025
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Prepared by: Signed by: *Amy Armbuster* **Date:** 2/18/2025
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