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CONTACT INFORMATION

Organization Name	Caldwell - West Caldwell Public Schools
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PROJECT NAME	Electric Truck Pilot Project

PROJECT CATEGORY OR CATEGORIES (choose from 1-9 in "Eligible Projects" section above)

1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☑ 7 ☐ 8 ☐ 9 ☑

PROJECT PRIORITY Priority # 2 of 3 proposals

If submitting more than one proposal, what is the sponsor's priority of this proposal?

PROJECT BUDGET $ 55,000.00

Provide total estimated project budget, include source and amount of cost share if applicable.

Request from VW Trust: $30,000 Cost Share from District: $25,000

PROJECT DESCRIPTION (Briefly describe the project by completing the following questions)

Geographic area where emissions reductions will occur? western Essex County

Estimated size of population benefitting from the emission reductions? 120,000

Estimated useful life of the project? 15

Number of engines/vehicles/vessels/equipment included in the project? 1

Estimated emission benefits should be expressed in tons per year (TPY) of emission reduced for NOx and for PM 2.5 over the lifetime of the project. Identify methodology used.

Estimated NOx benefits? 0.40 TPY

Methodology Used? EPA estimate

Particulate matter (PM 2.5) benefits? 0.01 TPY

Methodology Used? EPA estimate

Will the project benefit one or more communities that are disproportionately impacted by air pollution? If so, please describe.

Essex County is one of the communities in the state most impacted by air pollution. In western Essex County, where we are located, the level is moderate, but our maintenance workers must sometimes take buses to other areas where it is severe.

Project partners, if any? Workhorse Group, Inc. electric vehicle manufacturer
Explain how the project will provide cost effective and technically feasible emission reductions. Cost effectiveness should be expressed in dollars per ton per year of emissions reduced for NOx and for PM 2.5. The electric truck would eliminate NOx and PM emissions from the vehicle itself. Estimated cost effectiveness would be $100 per pound.
Estimated timeframe for implementation? Include a project timeline that identifies start and end dates, as well as the timeframe for key milestones. We have two Class 4 local freight trucks, purchased in 2001 and 2004, which will be de-commissioned in the coming years. We would look to order this truck in July 2018, order the Clipper Creek electric charging station in September 2018, install the electric charging station in December 2018 or January 2019, and receive/begin using the truck in March/April 2019.
Demonstrated success in implementing similar projects? We have implemented several energy-saving projects in our district, most recently including installation of higher efficiency HVAC equipment (2014), higher quality windows and doors (2015), and creation of sustainability learning center projects through Sustainable Jersey for Schools (2016). We are currently implementing an ESIP project through the state, which will involve over $4 million in energy improvements.
If your proposed project involves alternative fuels, provide a demonstration of current or future plans to provide adequate refueling infrastructure. We would just need an EV charging station, Clipper Creek HCS 60, which we have included in our budget.
Has your organization been approved to receive and expend any other grant funds related to this project? If so, please provide details. No, but if still available at the time of purchase, we would apply for $7,500 EV rebate from the federal government.
Please provide any additional information that supports this project. Our district's maintenance vehicle inventory includes two Class 4 local freight trucks, purchased in 2001 and 2004, which are nearing the end of their useful service life. Since most of the vehicle trips are local, electric vehicles are a strong possibility for replacement. We would be piloting the use of an electric truck to see if further replacements in the coming years could also be made by EVs.

Two additional pages have been provided as supplemental space to answer any of the questions above.