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CONTACT INFORMATION

Organization Name	Borough of Paramus
Organization Address	1 Jockish Square
City, State Zip Code	Paramus, NJ, 07652
Contact Person	Mr. Guy Picone, CPWM, CAFM, CRP, CPM
Title/Position	Director of Public Works
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PROJECT NAME	Paramus Electric Charging Station Initiative

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 # 1 of 1 proposals

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

PROJECT BUDGET $ 16,000.00

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

$7,000 per dual-port charging station equipment x 2 stations = $14,000.00
$1,000 per dual port charging station installation x 3 stations = $2,000.00

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

Geographic area where emissions reductions will occur? Borough of Paramus

Estimated size of population benefitting from the emission reductions? 26,880

Estimated useful life of the project? 5 years

Number of engines/vehicles/vessels/equipment included in the project? 2

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? 0.19 TPY

Methodology Used? FHWA CMAQ Toolkit Calculator

Particulate matter (PM 2.5) benefits? 0.003 TPY

Methodology Used? FHWA CMAQ Toolkit Calculator

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

This project will benefit the Borough of Paramus by reducing carbon emissions from automobiles. According to the CDC's Environmental Health Tracking Report the national standard for annual PM2.5 levels is 12.0µg/m3. When PM2.5 levels are above 12, this means that (see suplemental page 1)

Project partners, if any?

There are no project partners associated with this project. Aside from the contractor who will be hired to purchase and install the equipment, this project will be led by the Borough of Paramus.

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 cost of the 2 charging stations to be purchased is $16,000. The useful life of the equipment is 5 years. 0.19 tons of NOx and 0.003 tons of PM2.5 emissions per year will be reduced. As such, 0.95 tons of NOx and 0.015 tons of PM2.5 emissions will be reduced over the course of the useful life of the equipment. As such, the total cost to recognize this benefit is $3,200 per year.

Estimated timeframe for implementation? Include a project timeline that identifies start and end dates, as well as the timeframe for key milestones.

Receive award = Month 1
Solicit 3 quotes from vendors for equipment and installation = Month 2
Submit funding requisition to Finance Dept. = Month 3
Issuance of purchase order by Finance Dept. = Month 4
Award contract for equipment purchase and installation = Month 5
Contractor mobilization = Month 6
Construction period starts = Month 7
Construction period ends = Month 9
Project inspection, issue punch-list and closeout = Month 10
Prepare project final report and closeout to NJDEP = Month 12

Demonstrated success in implementing similar projects?

The Borough has been actively converting existing vehicles within its municipal fleet from gas/diesel to compressed natural gas. The Borough has been averaging a conversion of roughly 4 vehicles per year since 2014. It is for this reason that the Borough has the capacity necessary to manage this project if funding were to be awarded in an efficient and effective manner. In addition, the Borough is cognizant of the ancillary costs associated with implementing an alternative fuel vehicle project.

If your proposed project involves alternative fuels, provide a demonstration of current or future plans to provide adequate refueling infrastructure.

The proposed EV Charging Stations to be purchased will be installed at the Municipal Complex. The existing parking lot at the municipal complex is within the immediate proximity of the Borough Hall, Police Department, Rescue Squad HQ and DPW Garage. As such, the EV stations to be installed will be able to be easily linked to an existing power source located within any of these facilities. This will provide unlimited supply of power for the EV stations.

Has your organization been approved to receive and expend any other grant funds related to this project? If so, please provide details.

At this time, the Borough does not have any pending grant applications and/or awards with federal, state, county or other outside funding agencies for this project. The Borough has reviewed the scope of the proposed project, locations where EV stations will be installed, equipment to be purchased, etc. The Borough is in approval of the project scope as it stands. No further approvals are required at this time in order to advance this project in the event of a grant award being made.

Please provide any additional information that supports this project.

Paramus is classified as the #1 retail zip code in America due to the significant number of shopping malls located within the community. As such the daytime population swells to over 350,000 persons daily. This population increase results in an increase in the number of drivers on the roads. The proposed EV stations will help to encourage our residents to purchase EV vehicles, which will help to ultimately reduce the # of gas vehicles in our community minimizing the impact on the environment.

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

(continued from Project Description on Pg. 1) air quality is more likely to affect a persons health. In 2012, the annual level of PM2.5 in Bergen County was 10.0µg/m3. Although the annual level of PM2.5 never reached the danger level of 12, it did come extremely close. The Borough of Paramus is located in Bergen County. As such, any efforts through this project would directly impact the ability to help reduce annual levels of PM2.5.

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