State of New Jersey
Department of Environmental Protection

CHRIS CHRISTIE
Governor

KIM GUADAGNO
Lt. Governor

BOB MARTIN
Commissioner

PROJECT SOLICITATION

OVERALL GOAL

The State of New Jersey, as a potential beneficiary of the Trust established pursuant to the national Volkswagen settlement, intends to use its allocation from the mitigation trust to efficiently implement projects that reduce oxides of nitrogen (NOx) emissions in a cost effective and technically feasible manner. The implemented projects must meet the criteria of the Consent Decree. New Jersey is issuing this solicitation for project ideas to ensure a broad range of project ideas are considered. Additional opportunities will be provided for public input during the upcoming months.

Submissions must be received by November 27, 2017 and must contain all the information outlined in the "Project Proposals" section of this document.

ELIGIBLE PROJECTS

A general summary is below. Click here for comprehensive list and associated definitions.

Source Category	Emission Reduction Strategy	Allowed Expenditure Amount
1. Class 8 local freight trucks & port drayage trucks	Repower and replacement	Up to 40% for repower with diesel or alternative fuel or up to 75% (up to 100% if government owned) for repower with electric. Electric charging infrastructure costs are eligible expense. Up to 25% for replacement with diesel or alternative fuel or up to 75% (up to 100% if government owned) for electric replacement. Electric charging infrastructure costs are eligible expense.
2. Class 4-8 school bus, shuttle bus or transit bus	Repower and replacement	Same as row 1
3. Freight switching locomotives	Repower and replacement	Same as row 1
4. Ferries/Tugs	Repower	Same as row 1
5. Oceangoing vessels	Shorepower	Up to 25% for shore side infrastructure if non-government owned (up to 100% if government owned)

6. Class 4-7 local freight trucks	Repower and replacement	Same as row 1.
7. Airport ground support equipment	Repower and replacement	Up to 75% to repower or replace with electric (up to 100% if government owned). Electric charging infrastructure costs are eligible expense.
8. Forklifts and Port Cargo Handling Equipment	Repower and replacement	Up to 75% to repower or replace with electric (up to 100% if government owned). Electric charging infrastructure costs are eligible expense.
9. Electric vehicle charging stations or hydrogen fueling stations for light duty vehicles only		Up to 100% to purchase, install and maintain infrastructure if available to public at *government owned* property. Up to 80% to purchase, install and maintain infrastructure if available to public at *non-government owned* property. Up to 60% to purchase, install and maintain infrastructure at a workplace or multi-unit dwelling that is not available to the general public. Up to 33% to purchase, install and maintain infrastructure for publicly available hydrogen dispensing that is high volume or up to 25% for lower volume.

PROJECT PROPOSALS

Proposals must be submitted by close of business on November 27, 2017. Electronic submittals are preferred and should be sent to VWComments@dep.nj.gov however paper submittals will also be accepted and should be sent to:

NJDEP
Division of Air Quality
Mail code 401-02E
Trenton, NJ 08625-0420
Attn: VW Settlement

All proposals must contain the following information; incomplete applications will not be considered. If your project is selected, you may be contacted for additional detailed information. Send questions to VWComments@dep.nj.gov

To enter information electronically use Adobe Reader

CONTACT INFORMATION

Organization Name	Town of Dover
Organization Address	37 North Sussex Street
City, State Zip Code	Dover NJ 07801
Contact Person	Donald J. Travisano
Title/Position	Town Administrator
Phone	(973) 366-2200
E-mail	dtravisano@dover.nj.us

PROJECT NAME	Dover Parking Garage EV Charging Station 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 # 1 of 1 proposals

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

PROJECT BUDGET $ 32,000.00

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

The total cost estimated for this project is $32,000 determined from price estimates for four charging stations at approximately $8,000 per station. This includes the units, installation and all electrical components for the stations.

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

Geographic area where emissions reductions will occur? Dover, NJ

Estimated size of population benefitting from the emission reductions? 18,157

Estimated useful life of the project? 7- 10 years

Number of engines/vehicles/vessels/equipment included in the project? 4

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? 80.20 TPY

Methodology Used? FHWA CMAQ Emissions Calculator

Particulate matter (PM 2.5) benefits? 1.83 TPY

Methodology Used? FHWA CMAQ Emissions Calculator

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

This project will directly benefit residents within Dover and the surrounding community, as well as those travelling through the Town. As Dover is one of the few urban settings within Morris County, our residents experience more air pollution than those in the surrounding (continued on supp. pg. 1)

Project partners, if any?

The Town will partner with the Dover Parking Utility on this project. The Parking Utility will assist the administration of the EVCS use, as well as with monitoring the use of stations for evaluation.

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.

Residents and visitors travel through the downtown corridor of Dover on a daily basis as this is the main business district within the Town. Alternative fuel choices are very limited in this area even though many utilize the roads in the downtown area when they are in need of fuel during their trip. The nearby Route 46 and County Road 513 both offer many traditional (continued on supp. pg. 1)

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

The parking garage at the Dover Train Station is projected to be operational by 2020. As such, the Town will procure the EVCSs in the fall of 2019 to be installed and fully operational at the parking garage in January 2020.

Demonstrated success in implementing similar projects?

The Town's Administration has demonstrated commitment to implementing strategic solutions to allow for a sustainable future for Dover residents. With success in implementing similar projects in the downtown area, the Town has been working diligently to develop this project to ensure easy parking for public transportation or walking the downtown area. EVCSs have been included in this plan since its inception to encourage a more sustainable community for residents, commuters and visitors alike.

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

By implementing this project, the charging of electric vehicles will be accessible in the Town of Dover. Once the initial installation and infrastructure is established, the Town will be able to fund any additional units or upgrades as necessary. Service fees and maintenance costs will be included within future Town budgets to ensure the stations provide adequate refueling options for electric vehicle owners.

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

The Town of Dover has not yet received any funds in relation to this project as the Parking Garage is still in its preliminary design phase. Once the structure is underway, the Town will actively pursue other funding opportunities to provide for additional electric vehicle charging stations at the parking garage. If there are funds available through the state's "It Pay$ to Plug In" program, the Town will pursue funds towards the purchase of these charging stations (continued on supp. pg. 2)

Please provide any additional information that supports this project.

Electric vehicles have proven to help reduce greenhouse gas emissions and as a result improve air quality. The Town hopes there will be an increased demand for additional charging stations not only at this site, but at other locations throughout the Town. This project will act as a catalyst for the installation of multiple charging station sites, which will ultimately result in the advancement of energy conservation and efficiency initiatives within the municipality.

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

Disproportionate Impact: communities. Residents of the downtown community will be greatly affected in this high traffic environment as the new parking garage is to be located at the existing Lot A of the Dover Train Station (South Bergen Street and E Dickerson St). This area near the train station is exposed to consistently disproportionate levels of vehicle traffic, idling, noise pollution and carbon emissions on a daily basis, which will only increase with the construction of this parking garage in the downtown area. According to the EPA's EJSCREEN: Environmental Justice Screening and Mapping Tool, the Town ranks in the 84th percentile for particulate matter (PM2.5), in the 83th percentile for National Scale Air Toxics Assessment Air (NATA) Toxics Cancer Risk in the state, and in the 81st percentile for higher traffic proximity and volume for the state.

Cost Effective and Technically Feasible Emission Reductions: fueling stations but options for electric vehicles are very limited. As such, the Town of Dover proposes installing four electric vehicle charging stations (EVCS) within its planned parking garage (to be completed in 2020). Each EVCS can facilitate charging for two electric vehicles for a total of eight electric vehicles to be charged at one time. The planned parking garage will be conveniently located in the downtown area of the Town in one of the existing commuter parking lots of the Dover Train Station.

With four stations available at the parking garage, we expect residents will be encouraged to utilize electric vehicles, as there are currently no charging stations available within the Town. Completing this project will have a significant impact on the Town’s ability to conserve and more efficiently utilize energy. The cost effectiveness of this project is $40 to remove one ton of NOx and $1,748 to remove one ton of PM 2.5. Financial assistance to include charging stations at the parking garage located at the train station will not only provide an electric vehicle charging option this busy commercial area of Morris County, but will also provide an option for commuters to charge their vehicle during the day time.

Other Grant Funds: and the remaining stations to be purchased for the parking garage. If the Town's electric service company is making funds available or providing incentives for purchasing energy, the Town will pursue these funds towards the charging stations at the site if possible.