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CONTACT INFORMATION

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PROJECT NAME	Electrification of Last Mile Home Delivery Trucks

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 2 proposals

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

PROJECT BUDGET $ 1,100,000.00

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

Each of the BYD 6F box trucks will cost $200,000 plus $20,000 the recharging equipment. IKEA proposes that the state provide 75% of the total project costs in grant funding, per the terms of the settlement.

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

Geographic area where emissions reductions will occur? Cherry Hill/Camden, Jersey City/Hobok

Estimated size of population benefitting from the emission reductions? 6,000,000

Estimated useful life of the project? 10 years

Number of engines/vehicles/vessels/equipment included in the project? 5

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? 5.24 TPY

Methodology Used? EPA's DEQ using its default values

Particulate matter (PM 2.5) benefits? 0.22 TPY

Methodology Used? EPA's DEQ using its default values

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

The deployment of five (5) 20' BYD 6F box trucks will support final mile deliveries in New Jersey and complement the 10 electric box trucks in New York. These trucks would operate in Cherry Hill / Camden area, Trenton / Princeton area, and Jersey City / Hoboken / Montclair / Paramus.

Project partners, if any?

BYD America will supply the electric box trucks and chargers, which are commercially available and ready for immediate deployment

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.

Over the 10-year project life, the 5 box trucks will reduce 52.43 tons of NOx and 2.18 tons of PM. Thus, the annual cost-effectiveness of New Jersey's investment, assuming the 75% incentive level, is $15,735 per NOx ton and $378,440 per PM ton, per the EPA's Diesel Emissions Quantifier.

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

BYD's 6F box trucks are commercially available and ready for deployment. Upon order, these vehicles can be constructed and deployed within 6 months. Throughout the lifetime of the project, BYD commits to on-going vehicle monitoring in order to supply New Jersey with transparent vehicle and emissions data.

Demonstrated success in implementing similar projects?

As the world's largest producer of battery electric buses, BYD has demonstrated experience and established customer delivery and deployment processes. Indeed, BYD has deployed more than 12,000 zero-emission buses internationally and has received orders for over 20,000 additional buses. These buses have accumulated more than 130 million miles of service, saved over 27 million gallons of diesel, and reduced 625 million pounds of greenhouse gases (GHGs).

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

Where BYD's technology exceeds the capabilities of our competitors is the design and capability of our AC chargers; specifically, our AC charging is all done on-board the vehicle. This on-board charging approach eliminates installation of large, expensive, hot DC charging stations with external converters. It also allows the chargers to be compact, easy to operate, easily installed with minimal space, engineering or permitting and even easily moved as needs change.

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

No

Please provide any additional information that supports this project.

Please refer to the attached document for further information

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

Supplemental Page 1

Please refer to the attached document for further information

Supplemental Page 2

Please refer to the attached document for further information