

To enter information electronically use Adobe Reader

CONTACT INFORMATION

Organization Name	IKEA Distribution Services North America
Organization Address	100 IKEA Drive
City, State Zip Code	Westampton, NJ 08060
Contact Person	Adolfo Kurczyn
Title/Position	Sustainability Manager North America
Phone	(609) 261-1208
E-mail	adolfo.kurczyn@ikea.com

PROJECT NAME	Electrification of Distribution Terminal Tractors
---------------------	---

PROJECT CATEGORY OR CATEGORIES (choose from 1-9 in "Eligible Projects" section above)									
1 <input checked="" type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>	6 <input type="checkbox"/>	7 <input type="checkbox"/>	8 <input type="checkbox"/>	9 <input type="checkbox"/>	

PROJECT PRIORITY	Priority # 1	of 2	proposals
If submitting more than one proposal, what is the sponsor's priority of this proposal?			

PROJECT BUDGET	\$ 1,280,000.00
Provide total estimated project budget, include source and amount of cost share if applicable.	
Each of the BYD 8Y terminal tractors will cost \$300,000 plus \$20,000 for the recharging equipment. IKEA proposes that New Jersey 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? Westampton, NJ
Estimated size of population benefitting from the emission reductions? 450,000
Estimated useful life of the project? 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? 33.80 TPY Methodology Used? EPA's DEQ using its default values Particulate matter (PM 2.5) benefits? 12.04 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 four (4) BYD 8Y terminal tractors will support local freight logistics in Burlington County, which is currently listed as an ozone nonattainment area and is thus a priority area for diesel emission reduction projects.

<p>Project partners, if any?</p> <p>BYD America will supply the electric terminal tractors and chargers, which are commercially available and ready for immediate deployment</p>
<p>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.</p> <p>Over the 10-year project life, the 4 electric terminal tractors will reduce 338 tons of NOx and 120 tons of PM. Thus, the annual cost-effectiveness of New Jersey's investment, assuming the 75% incentive level, is \$2,840 per NOx ton and \$8,000 per PM ton, per the EPA's Diesel Emissions Quantifier.</p>
<p>Estimated timeframe for implementation? Include a project timeline that identifies start and end dates, as well as the timeframe for key milestones.</p> <p>BYD's 8Y vehicles 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.</p>
<p>Demonstrated success in implementing similar projects?</p> <p>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).</p>
<p>If your proposed project involves alternative fuels, provide a demonstration of current or future plans to provide adequate refueling infrastructure.</p> <p>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.</p>
<p>Has your organization been approved to receive and expend any other grant funds related to this project? If so, please provide details.</p> <p>No</p>
<p>Please provide any additional information that supports this project.</p> <p>Please refer to the attached document for further information</p>

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