

CHRIS CHRISTIE

Governor

Department of Environmental Protection

BOB MARTIN Commissioner

KIM GUADAGNO Lt. Governor

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 January 31, 2018 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	Allowed Expenditure Amount
	Reduction	
	Strategy	
1. Class 8 local	Repower and	Up to 40% for repower with diesel or alternative fuel
freight trucks &	replacement	or up to 75% (up to 100% if government owned) for
port drayage		repower with electric. Electric charging
trucks		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	Repower and	Same as row 1
bus, shuttle bus	replacement	
or transit bus		
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)

	Class 4-7 local freight trucks	Repower and replacement	Same as row 1.
s	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.
(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.
f	Electric vehicle charging stations or hydrogen fueling stations for light duty wehicles only		Up to 100% to purchase, install and maintain infrastructure if available to public at <i>government owned</i> property. Up to 80% to purchase, install and maintain infrastructure if available to public at <i>non-government owned</i> 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 January 31, 2018. Electronic submittals are preferred and should be sent to www.vwc.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

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Organization Name	
Organization Address	
City, State Zip Code	
Contact Person	
Title/Position	
Phone	
E-mail	

PROJECT NAME

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 # of proposals

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

PROJECT BUDGET

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

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

Geographic area where emissions reductions will occur?

Estimated size of population benefitting from the emission reductions?

Estimated useful life of the project?

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

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? TPY

Methodology Used?

Particulate matter (PM 2.5) benefits? TPY

Methodology Used?

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

reduction	now the project will provide cost effective and technically feasible emission as. Cost effectiveness should be expressed in dollars per ton per year of emissions for NOx and for PM 2.5.
	d timeframe for implementation? Include a project timeline that identifies start and a, as well as the timeframe for key milestones.
Demonst	rated success in implementing similar projects?
	roposed project involves alternative fuels, provide a demonstration of current or ans to provide adequate refueling infrastructure.
•	organization been approved to receive and expend any other grant funds related to ect? If so, please provide details.
Please pr	ovide any additional information that supports this project.

Supplemental Page 1	

Overview

ChargePoint's regional site acquisition professionals, working with ChargePoint experts across the country, have engaged in a rigorous site selection process that considered a wide variety of factors including studies performed by ChargeEVC, distance between sites, distance from highway, sufficient parking spaces, safety, 24-hour access to charging stations, facility amenities, and suitability of site hosts. ChargePoint focused on areas that would be strategic from a utilization perspective, benefit environmentally challenged areas, be scalable throughout the State of New Jersey, as well as, provide the most effective costs on a per port deployment.

For the first phase of funding, ChargePoint proposes a strategy that focuses initial deployments in the most heavily concentrated areas of Electric Vehicle (EV) registration, proximity to high proportions of

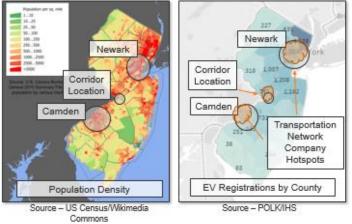


Figure 1 State Strategy

multi-family housing and aligned with areas of high Transportation Network Company (TNC) use (e.g., Lyft, Uber). This initial deployment is designed to have the most impact during the 1st phase of Volkswagen Settlement funding for the State of New Jersey. Subsequent ChargePoint project proposals will be targeted toward extending the reach of the initial phase 1 deployment and enhancing the cost effectiveness of all proposals. This multi-tiered approach allows the State of New Jersey to address the areas of biggest impact first, then fill in

the gaps in later funding rounds. ChargePoint will

submit three separate project proposals focused on three different service territories – Camden, Newark and an intermediary corridor location in Bordentown. Deploying DC fast chargers in these locations will rapidly increase utilization of EVs and have significant impact on NOx emissions especially within urban cores and along dense travel corridors where environmental justice communities are located. These charging stations will help ease range anxiety and create greater local and regional travel confidence, amongst existing and prospective EV drivers.

ChargePoint's Camden DC fast charging hubs project focuses on providing vital DC fast charging

infrastructure at key routes to and from business, entertainment, and multifamily housing concentration areas. In conjunction with the previously mentioned site analysis, ChargePoint has secured Memoranda of

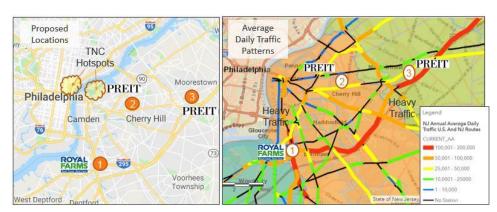


Figure 2 - Camden Locations

Understanding (MOU) with site hosts to begin rapid deployment of DC fast chargers at three locations – Moorestown, Cherry Hill and Gloucester City. The MOU with each site host will help expedite definitive site license agreements that will be secured once all relevant New Jersey DEP pass through terms and conditions have been incorporated.

Business Model

ChargePoint will deliver a turnkey solution to the State of New Jersey, tailored to the unique needs of each site host, and backed by a maintenance and support plan for maximum driver and site host satisfaction. This solution will include the industry's most advanced and durable hardware, intuitive mobile app, and dedicated driver and station support teams. ChargePoint's business model reflects the company's experience and understanding in site host needs and ensuring long-term viability and operation of the site.

Each of the selected Camden area site hosts prefer that ChargePoint assume full ownership and responsibility for the EV charging services at their property. In this case, ChargePoint will establish a license to operate the EV chargers on the host's property. ChargePoint will be responsible for setting prices and paying all operational expenses, including ongoing electricity costs. ChargePoint will be responsible for providing Network Services, 24/7 driver support and all required maintenance to uphold at least 98% equipment uptime. Services far beyond a standard warranty are provided through the ChargePoint Assure program. Assure is the charging industry's most comprehensive maintenance and management program, which includes all costs associated with maintenance and repair of the charging stations due to a manufacturing defect, accident, or vandalism.

With comprehensive network and support services provided by ChargePoint, drivers will enjoy the same user experience and support whether stations are owned by site hosts or directly by ChargePoint. This electric vehicle service provider (EVSP) business model enables ChargePoint to ensure the EV charging infrastructure is continuously operated for the full term of the program, with minimized risk, regardless of challenging operational expenses such as utility demand charges.

Construction and Upgradable Site Design

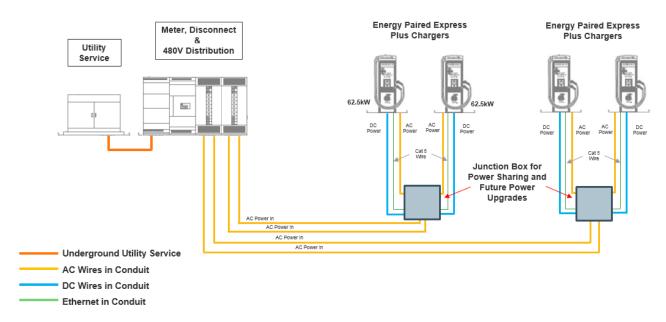
At each location, ChargePoint will install four state-of-the-art ChargePoint Express 250 chargers. Each charger will be capable of dispensing a minimum of 62.5 kW per vehicle when initially installed. The platform and site design will easily allow more power to be added to each charger in the future. Each site will be upgradable to achieve power levels exceeding 300kW per vehicle without the need to do more trenching and conduit runs making the site fully future proofed for vehicles in the near term as well as the distant future.

This initial scope covers the needs of nearly all commercially available passenger EVs on the road today, maximizes the number of chargers that can be installed with VW Settlement funding, and provides an easy upgrade path for ChargePoint to add more power with our own funding in the future as vehicles that can charge at higher levels become more prominent on the road (see Initial Site Design below).

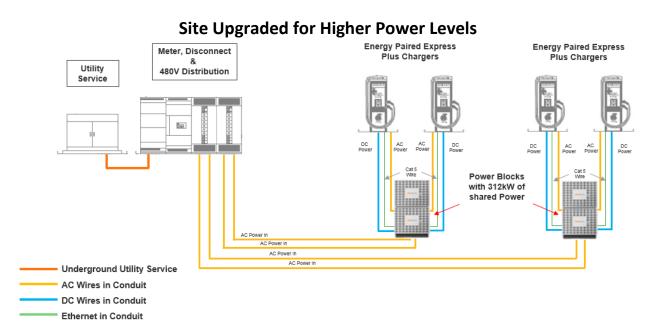
The Express platform is driver-friendly with a 10" LCD touchscreen for interaction and display of car charging status and instructional videos. Swing arms make it easy to reach vehicle charging ports and

area lighting improves safety. The Express platform has universal compatibility so any EV with fast charging capabilities can be charged with standard connectors.

Initial Site Design



By carefully planning and constructing the site as described above, it will reduce costs in the future when upgrading to add more power. Once upgraded, each pair of chargers will share 312kW of power in modular Power Blocks. The 312kW of power can be split evenly between two cars or allocated in 31.25kW increments to either vehicle depending on demand. If only one car is charging on a given pair of chargers, the vehicle would have all 312kW available for that vehicle if the vehicle is capable. Future power upgrades will be at ChargePoint's discretion and expense based on utilization and power demand.



Site Detail

Location # 1 - Royal Farms, 1200 Crescent Ave Gloucester City, NJ 08031

Environmental	Selected Variables Percentile in State Percentile in EPA Region Percentile in USA							
Justification	EJ Indexes EJ Index for Particulate Matter (PM 2.5) 63 59 61							
	EJ Index for Ozone 62 59 60							
	Source: EPA EJSCREEN Report (Version 2018)							
Justification and	This proposed location impacts an area that ranked 63% and 62% for PM 2.5 and							
Nearby Amenities:	Ozone respectfully. Located within .5 miles of an interexchange on I-76, this high							
	volume traffic location serves as an easy access charging spot for travelers from New							
	York City, Philadelphia and Wilmington, Delaware with 100,000-200,000 daily drivers							
	according to NJDOT. This location is situated on a primary travel route from the City of							
	Camden heading south towards Wilmington. Publically accessible 24x7, this location is							
	near a heavy concentration of multi-family housing and has easy access to							
	entertainment areas, corridor routes, and the business district of Camden. This is an							
	ideal location for commuters, transportation network company drivers and local EV							
	drivers. The location offers 24/7 access to restrooms and food.							
Site License Status:	Memorandum of Understanding in place with the site host. A definitive agreement will							
	be executed with host after New Jersey DEP award to ensure relevant pass through							
	terms of state contract are included. Royal Farms has executed previous DC fast							
	charger hosting agreements with ChargePoint in other service areas.							
Electrical Supply	PSEG is the local service provider. Three phase power located on utility pole							
	approximately 200ft. from designated installation location to minimize costs.							
EVSE Configurations:	Four (4) CPE 250 DC fast chargers (62.5 kW each)							
J	Appropriate conduit and in-ground pull boxes installed at the site to allow for easy							
	upgrades to higher charging speeds in the future (up to 312kW per vehicle)							
Aerial photo and site	appliances to higher charging specias in the fature (up to 312kW per vehicle)							
plan:	Future Charging Spots Proposed Licensed Area/Equipment - Four (4) CPE 250 - Necessary electric supply equipment							

Location # 2 - Cherry Hill Mall, 2000 NJ-38 Cherry Hill, NJ 08002

Environmental	Selected Variables	Percentile in State	Percentile in EPA Region	Percentile in USA				
Justification	EJ Indexes EJ Index for Particulate Matter (PM 2.5)	49	44	44				
	EJ Index for Ozone	51	46	46				
Justification and	1	A EJSCREEN Report	'	DM 2 F				
	This proposed location impacts							
Nearby Amenities:	Ozone respectfully. In close pro	•	•					
	90, this high volume traffic location							
	This location is poised to aid und							
	many local businesses and ente							
	location benefits from easy acce		•					
	Daily traffic in the area on the routes above serve between 10,000-100,000							
	drivers according to NJDOT. There are many desirable driver amenities such as							
	food, restrooms and entertainm							
Site License Status:	Memorandum of Understanding	-		-				
	will be executed with host after	•		-				
	through terms of NJ contract are		•	ast charging				
	hosting agreements with Charge							
Electrical Supply	PSEG is the local service provide	-						
	approximately 200ft. from design	gnated installati	on location to minir	nize				
	installation costs.							
EVSE Configurations:	Four (4) CPE 250 DC fast characters	argers (62.5 kW	/ each)					
	Appropriate conduit and in-	ground pull bo	xes installed at the	site to allow				
	for easy upgrades to higher	charging speed	ds in the future (up t	o 312kW per				
	vehicle)							
Aerial photo and site								
Aerial photo and site plan:	Transport of the second of the	Charles II.	Proposed Licens Area/Equipment - Four (4) C - Necessar supply ec	te CPE 250 y electric quipment				

Location # 3 - Moorestown Mall, 400 NJ-38 Moorestown, NJ 08057

Environmental	Selected Variables	Percentile in State	Percentile in EPA Region	Percentile in USA			
Justification	EJ Indexes EJ Index for Particulate Matter (PM 2.5)	23	17	20			
	EJ Index for Ozone	28	22	23			
Justification and	This proposed location impacts a	EJSCREEN Report (•	or DM 2 F and			
Nearby Amenities:	Ozone respectfully. Located with						
ivearby Amenicies.	Turnpike, this high volume traffi						
	location for urban and suburban		•				
	Turnpike and I-295 outbound from		•	•			
	Delaware. This location is conve		•	_			
	major highways. Daily traffic ave	•					
	200,000 drivers while NJ Route 7	_	-				
	drivers according to NJDOT.	75 traffic averag	es between 30,000	-100,000			
Site License Status:	Memorandum of Understanding	t in place with t	ao sito host A dofin	itivo			
Site License Status.	agreement will be executed with	•					
	relevant pass through terms of N						
	fast charging hosting agreement			-			
Electrical Supply	PSEG is the local service provide						
Liectrical Supply	approximately 200ft. from desig						
	installation costs.	nateu mstanatit	on location to minim	1126			
EVSE Configurations:		praore (62 E k)M	oach)				
EVSE Comigurations.		• Four (4) CPE 250 DC fast chargers (62.5 kW each)					
	Appropriate conduit and in-ground pull boxes installed at the site to allow for any ungrades to higher phaging and do in the fitting (up to 212) W. page						
	for easy upgrades to higher charging speeds in the future (up to 312kW per vehicle)						
Aerial photo and site	vernicie)						
plan:	ating Phase Quarter Constitution of the Consti						
pian.							
	Proposed Licensed						
	Area/Equipment						
	Holman Linco	li di	- Four (4) CF - Necessary				
	Regal Cinemas		supply equ				
	Moorestown Mall 112 & Standard verue for	1 -010		1.11%			
			X X X				
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	Future Charging Spots		The State of the S	D.			
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Express 250

The Future of DC Fast Charging

The ChargePoint Express 250 family is designed to meet the fast charging needs of today's and tomorrow's electric vehicles.

ChargePoint® Express 250 is based on industry-leading DC fast charging technology, engineered to fast charge current and next-generation electric cars, buses and trucks. Each station is equipped with two Power Modules that deliver up to 62.5 kW to a vehicle. The station supports legacy and future battery packs from 200V to 1,000V. High-efficiency power conversion (more than 96% efficiency) reduces electricity costs and wasted energy.

Stations can be equipped with up to two different connector types and an elegant cable management system keeps charging cable off the ground. Ergonomic, user-friendly design delights drivers and makes it easy and safe to charge. A 254 mm (10 in) LCD touchscreen lets drivers interact with instructions, information or promotions. A 508 mm (20 in) wide-format LED display notifies drivers of station availability and status. Integrated area lighting creates a safe and comfortable environment for drivers. The ChargePoint mobile app and in-dash systems tie everything together: drivers can locate stations, get in line to charge at busy stations, instantly start charging, see their charging status and track their activity over time.

Built-in cellular networking enables remote management of the station, while ChargePoint Cloud Services make it simple for station owners to customize charging stations to meet their specific requirements. Advanced features manage energy costs, support sophisticated pricing models, control who can access stations and more. Reports offer detailed information about station utilization and energy use, making it simple to plan for ongoing investments and growth. Automatic software upgrades ensure the latest features are always available to drivers and station managers.

Fault-tolerant design, instrumentation for remote monitoring and intelligent diagnostics allow the world-class ChargePoint support team to provide proactive alerts to prevent station outages and eliminate driver frustration.



Express 250 Station

Driver Engagement

- A mobile app or in-dash system makes it easy for drivers to manage all their charging activity
- Two displays optimize driver interaction, showing real-time station availability, state of charge, session pricing, energy dispensed, current wait times and more
- Integrated cable management keeps cables off the ground and safely out of the way of drivers
- Innovative swing arms increase charging cable reach and make it simple to plug in with one hand
- User interface supports touch control, works with gloves and resists vandalism
- + 24/7 ChargePoint phone support ensures drivers are never stranded

Universal Compatibility

- + Compatible with international electrical grid standards and vehicles (400-480V, 50-60 Hz)
- Up to two connectors per Express 250 Station support global standards: CHAdeMO, CCS1, CCS2; other connectors will be supported in the future

Cloud-Based Station Management

- Real-time station availability and details for drivers
- Access controls for managing who can use stations and when
- + Total output power can be configured to manage electrical costs or meet site-specific requirements
- Seven different pricing models simplify tailoring pricing to specific driver groups
- Multiple authentication and/or payment methods match driver and business needs
- Secure collection of charging fees from drivers and automated remittance to station owners
- + 24/7 monitoring and data gathering for detailed reports to understand trends
- Automatic software updates instantly expose the latest features and enhancements

High Availability and Serviceability

- + Minimal moving parts increase reliability and minimize ongoing field service for maintenance
- Configurable levels of Power Module redundancy minimize downtime
- + Power Module duty cycle management extends service life
- + Modular components can be installed in the field without any specialized tools or expertise
- Instrumentation for remote monitoring, intelligent diagnostics and machine learning predicts failures and ensures high availability

When Charging is Mission Critical, Protect Your Investment with ChargePoint Assure

- + Minimize downtime: ChargePoint Assure provides the most comprehensive EV Station maintenance and management in the industry
- + Get up and running quickly and flawlessly: Professional guidance for station configuration saves you time, and unlimited changes to station policies flexibly supports your business
- + Eliminate unexpected future expenses: Cost for parts and on-site labor to install is covered for all Assure eligible repairs
- One less thing to worry about: Proactive station monitoring provides you with regular reporting
- + Reduced risk of downtime: We guarantee 98% annual uptime and one business day response to requests
- Support when you need it: We're there for you and your drivers. Phone support available for station owners Monday to Friday from 5 AM to 6 PM Pacific. Phone support for drivers is 24/7/365, so you never need to field a driver call

Mobile and In-Dash Integration

- + Real-time availability of stations on the network
- Drivers can get in line to use busy charging spots
- + Typical wait times help drivers determine the most convenient time to charge
- Charging status updates by the second with configurable desired state of charge

-chargepoin+

Express 250 Station



Power Module

- + Self-contained AC to DC power conversion system
- + Output range between 200V and 1,000V DC
- Delivers up to 31.25 kW at a max current of 78A
- + Sealed units are easily field installed in Express 250 Stations

