



NJ's Medium and Heavy-Duty Zero Emission Efforts



September 2024

TEAMWORK AND COLLABORATION



Federal Agencies

State Agencies

Regional Organizations

Non-Profit Organizations

Private and Public Entities



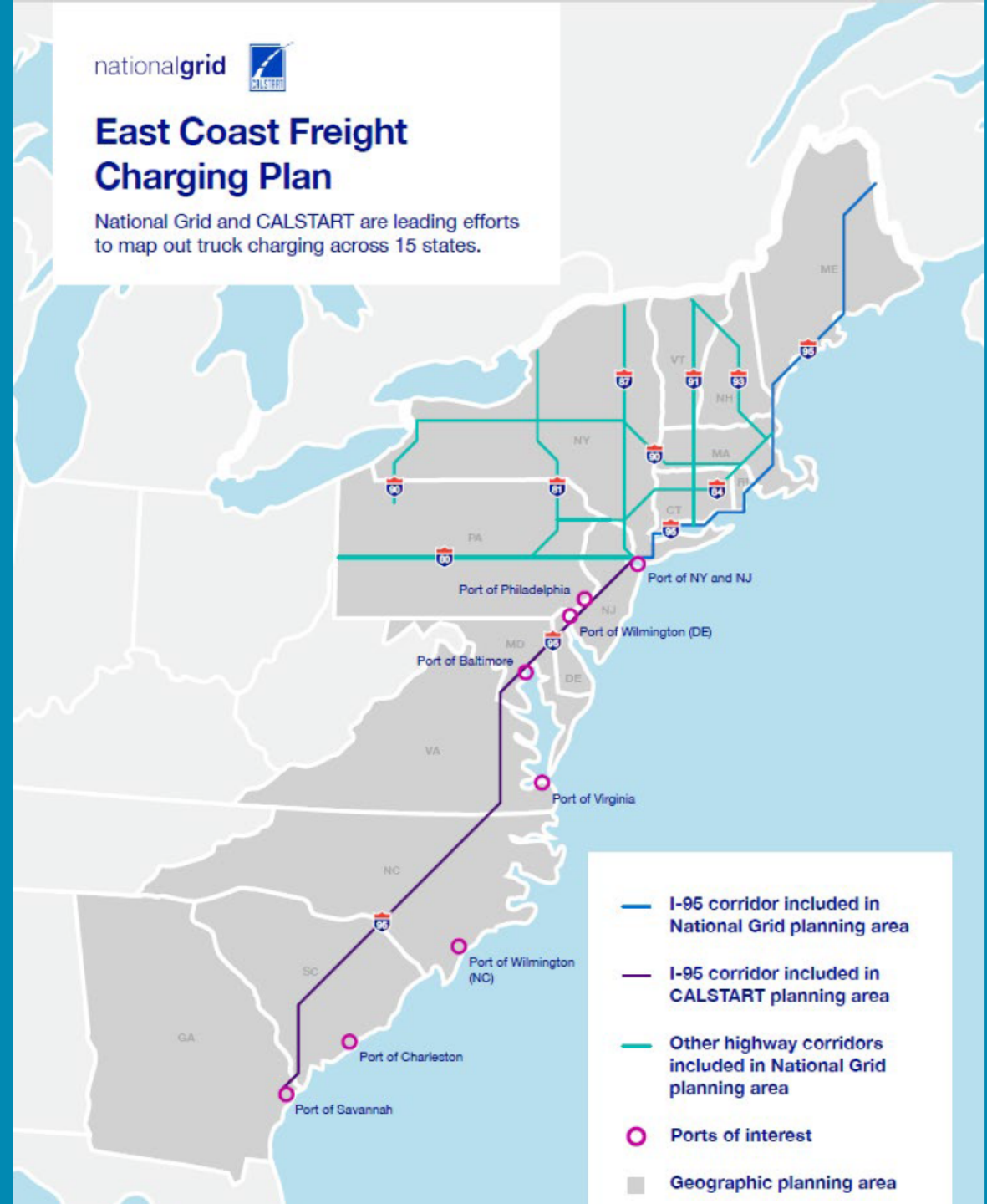
- **Infrastructure** – NJ and beyond
- **Resources** – Technical and Informational
- **Financial Incentives** – Grants and tax credits

Regional Charging Collaboration



East Coast Freight Charging Plan

National Grid and CALSTART are leading efforts to map out truck charging across 15 states.



Clean Corridor Coalition Award

MHD ZEV Charging Infrastructure CPRG Grant

- \$248,900,000 for public freight truck charging infrastructure at approximately 20-24 sites
- 459,000 tons of GHGs reduced from 2025-2030, >18 million tons from 2025-2050
- Four states comprise the coalition (“C3”):
 - NJ DEP
 - MDE, MDOT
 - DelDOT
 - CT DEEP



Maryland
Department of
the Environment





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New Jersey
ELECTRIC VEHICLE & CHARGING INFRASTRUCTURE INCENTIVES FOR MEDIUM- AND HEAVY-DUTY VEHICLES
Section A. Electric Vehicles (EVs)
 Part 1: Summary of Incentive Programs

Program	Agency	Geographic Eligibility	Overview (visit program websites for details)
Federal Tax Credit		Statewide	Businesses and tax-exempt organizations that buy a qualified commercial clean vehicle may qualify for a clean vehicle tax credit of up to \$40,000 under Internal Revenue Code (IRC) 45W. Plug-in hybrid or electric vehicles: - \$7,000 for compact plug-in hybrid electric vehicles (PHEVs) (includes minicompact and subcompact cars) with a GVWR of less than 14,000 pounds - Maximum credit of \$7,500 for all street electric vehicles, other than compact car PHEVs, with a GVWR of less than 14,000 pounds - Maximum credit of \$40,000 for all other vehicles with a GVWR of 14,000 pounds or more
Zero Emission Vehicle Tax Exemption		Statewide	Sales Tax Exemption - New or used Zero Emission Vehicles (ZEVs) sold, rented, or leased are exempt from state sales and use tax in weight classes 1-8. - The exemption will be phased out over nine months beginning October 2024 with a tax rate of 3.3125% from October 1, 2024, to June 30, 2025. July 1, 2025, and on will have a 6.625% (or regular sales tax rate) tax.
Clean Fleet EV Incentive Program		Statewide	Purchase Incentive - State and local governments, entities, and schools can receive up to \$10k per Eligible Class 2B-6 Battery Electric Vehicle (cap depends on population served) Pop. less than 20k: 4 vehicle maximum Pop. 20-50k: 10 vehicle maximum Pop. 50-100k: 14 vehicle maximum Pop. more than 100k: 20 vehicle maximum
WorkClean Diesel Modernization Incentive Program		Statewide	Purchase Incentive for cleaner vehicles/equipment - Examples: garbage trucks, delivery trucks, transit buses, forklifts, backhoe loaders, etc. - Financial incentives vary depending on the types of vehicles/equipment and charging stations. - Vehicle(s)/equipment being replaced must be decommissioned - Overburdened communities are prioritized.
Electric School Bus Grant Program		Statewide	Purchase Incentive for battery electric school buses - Funding to replace diesel school buses with battery-electric school buses - Eligible school districts that own their buses and school bus contractors that provide busing services to schools must apply in conjunction with a specified school or school district - Vehicle(s)/equipment being replaced must be decommissioned - Grant applications accepted on a solicitation basis
New Jersey Zero Emission Vehicle Incentive Program (NJ ZEP)		Statewide; Phase 2 is now closed. Visit program website to sign up for listserve notifications.	Purchase Incentive - Voucher for businesses and institutions to purchase new, medium and heavy-duty zero emission vehicles (ZEVs) Bonus Criteria* - Certified woman-, minority-, or veteran-owned business: 4% per qualification - Small business: 25% increase of the base voucher amount per vehicle - Environmental Justice bonus: 10% for small business applicants or municipalities who commit to drive 50% or more vehicle miles in NJ overburdened communities for 3+ years - New Jersey manufacturing bonus: 25% for Vendors that demonstrate 25% or more of the cost of that vehicle is spent in New Jersey on labor for vehicle design, assembly, and/or manufacturing or cost of components - School Bus bonus: 25% if applicant is purchasing a school bus *Bonuses are added to base voucher value and can be stacked; capped at 100% of vehicle cost

NEW JERSEY DRIVES THE ELECTRIC VEHICLE REVOLUTION

GRANT FUNDING

Awarding nearly \$540 M since 2019 for:

- 36,413 electric vehicles for private or personal use
- 331 electric vehicles for local government
- 7,190 charging stations with 12,437 ports at 1,840 locations
- 9 eMobility projects that will increase access to clean, shared transportation in overburdened communities
- 544 electric trucks and cargo vans
- 253 electric school buses and 252 electric buses and shuttle buses
- 179 electric airport, port, and other vehicles and equipment

OUTREACH & EDUCATION

PlugStar
 Over 49 NJ dealerships certified through EV dealer training program
 Over 28,000 NJ residents explored website to learn more about EVs

DRIVE CHANGE DRIVE ELECTRIC
 4 communities and 111 local businesses joined Destination Electric to raise awareness of NJ's existing charging infrastructure
 Over 40,000 NJ residents visited website since March 2020

drive green new jersey
 17 EV Ride & Drive events held with over 1,164 EV test drives
 Over 42 public events with DEP representatives providing information on EVs

UTILITIES

\$215 million committed for make-ready infrastructure funding for public, Multi-Unit Dwelling (MUD) and workplace light-duty EV charging stations and residential chargers
Draft framework released to develop grant programs to fund make-ready infrastructure for MHD vehicles

Electric Vehicle Resources for Local Government

New Jersey

Accelerate electric vehicle (EV) adoption in New Jersey with incentives, procurement tools, policy and planning support, and more.

Incentives
If Pays to Plug In: NJ's Electric Vehicle Charging Grants
 Grants to offset the cost of purchase and installation of electric vehicle charging stations at parking facilities, workplaces, government and educational facilities, non-profits, apartments and condominiums, and along highways.
www.dhs.gov/nj/electricvehicles

Heavy Duty Vehicle Electrification Grants
 Grants to replace old diesel trucks, buses, port equipment, marine vessels, and trains with electric power and to offset the cost of associated charging infrastructure.
www.state.nj.us/dep/ev/electric.html

Clean Fleet Electric Vehicle Incentive Program
 Grants of up to \$4,000 per vehicle for the purchase of up to two eligible electric vehicles for local government authorities in New Jersey. The program allows local governments to purchase EVs at the State Purchasing Contract price and simultaneously apply for grant funds. Funds are awarded on a rolling basis and subject to availability.
www.nj.gov/dep/ev/electricvehicles/charges.html

eMobility Grants
 Grants for electric shared mobility project such as electric car sharing and ride sharing. Projects that benefit low- or moderate-income communities that are disproportionately impacted by air pollution will be prioritized.
www.state.nj.us/dep/ev/electricvehicles/electric.html

Procurement
Electric Vehicles on NJ State Purchasing Contracts There are the fully electric and plug-in hybrid electric vehicles with discounted pricing on state contract. The vehicles and their Contract/Market As are: 2020 Chevrolet Bolt (19-FLEET-00954); 2019 Nissan Leaf (19-FLEET-00958); 2020 Toyota Prius Prime (19-FLEET-00954); 2020 Ford Fusion Energi (19-FLEET-00955); 2019 Chrysler Pacifica Hybrid (19-FLEET-00444). For full details, search the Contract/Market numbers at NJ START at www.njstart.com/contracts/contracts/contracts.html

Climate Mayors Electric Vehicle Purchasing Collaborative
 Purchase or lease electric vehicles and charging stations using competitively bid contracts. Open all U.S. cities, counties, state governments and public universities. The Collaborative also provides training, best practices, educational resources and analysis support, creating a one-stop shop to support EV transitions for public fleets.
www.climatecollaborative.org

In New Jersey, the transportation sector accounts for 42% of the state's greenhouse gas emissions, making it the largest emissions source in the state.

The Energy Master Plan defines 100 percent clean energy by 2050 as 100 percent carbon-neutral electricity generation and maximum electrification of the transportation and building sectors, which are the greatest carbon emission producing sectors in the state.

By transitioning to EVs, NJ would take a transformative step toward elimination of the dominant source of local air pollution, including black carbon, providing large, direct health savings, with outdoor benefits to environmental justice communities currently burdened by poor air quality.

Medium Heavy-Duty Utility Programs



Utilities provide incentives for charging for public and publicly serving transportation.



Utilities provide incentives for charging for fleets in or serving Overburdened Municipalities



Utilities provide technical planning services for fleets and public chargers over 500KW.



Managed charging programs.



Framework for this program has not been finalized yet and information was taken from the draft framework 2023

NJ DEP's Zero-Emission Fleet Advisory Services

CALSTART

Task 1 Recruit & Select Fleets

- Public and privately owned fleets; Class 2b and larger
- Priority for fleets in OBCs
- Approx. 15 fleets per year; 3 years
- Focus on fleets comprised of less than 20 medium- or heavy-duty fossil fueled vehicles
 - Subsequent years will include fleets of up to 25 vehicles

Task 2 Develop electrification roadmaps

- Individualized fleet electrification roadmaps will include:
- A ZEV total cost of ownership (TCO) analysis
 - Recommended ZEV & charging/fueling options
 - Charging optimization strategies and required grid upgrades
 - A list of available state & federal incentives
 - A corresponding procurement plan
- Includes an in-person site assessment

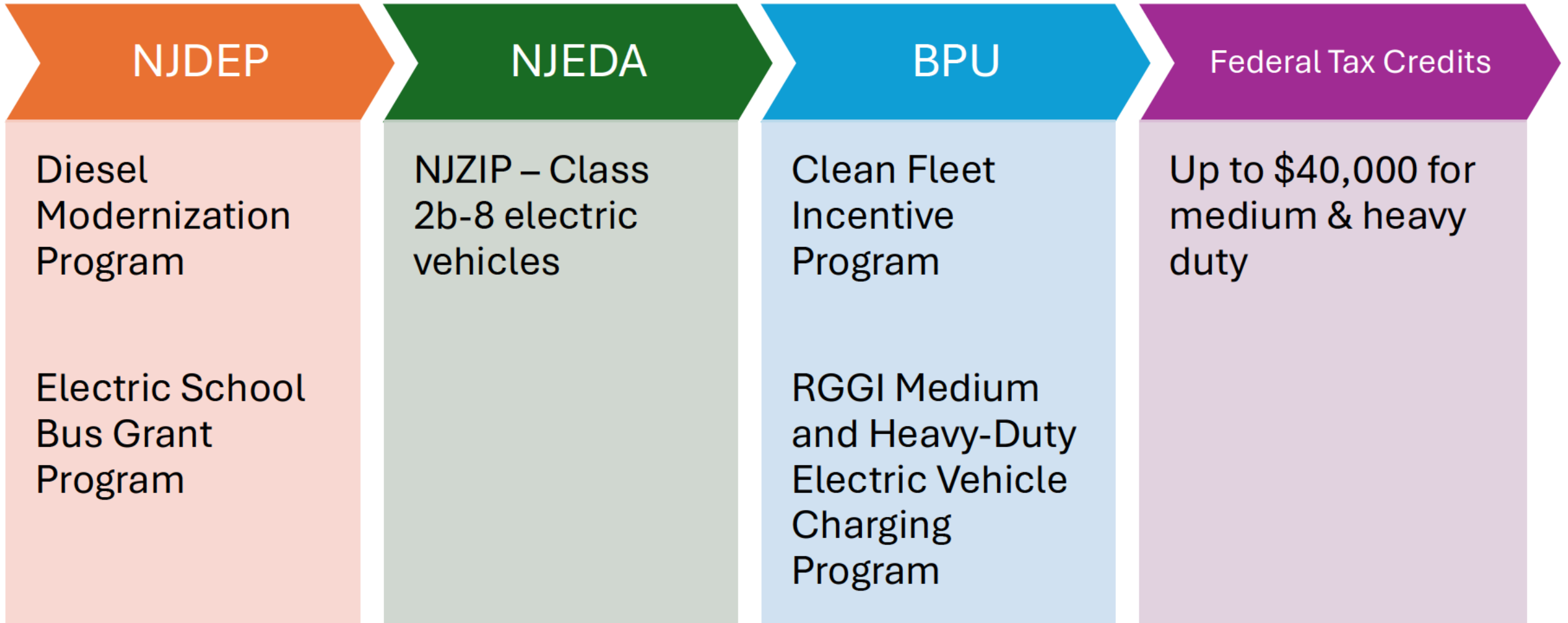
Task 3 Develop resources for DEP webpage

- Registration and general information
- ZE- MHDV availability
 - Information on charging and charging stations
 - List of state and federal incentive programs
 - Generic TCO calculators
 - A “how to get started guide” with steps and timelines
 - Case studies

Task 4 Provide progress and final reports

- Quarterly progress updates including progress on work with all fleets
- Final report assessing the program's overall benefits, lessons learned, recommendations for future fleet electrification, project successes and challenges

MHD Incentives



New Jersey's (DEP, EDA, BPU) Medium and Heavy-Duty funding programs

Examples: street sweepers, transit buses, garbage trucks, delivery trucks, bucket trucks, and port equipment.

Over **\$310 MILLION** has been awarded for over 1,000 electric vehicles/equipment and charging equipment.



ELECTRIC SCHOOL BUS GRANT PROGRAM



Electric School Bus Law

- \$15M a year for 3 years
- Year 1 Awards will be announced next week

Eligible Applicants

School districts that own their own buses

School bus contractors providing busing services to schools.

Eligible Buses

All electric

Type C or D

New

(No repowers or used buses)

Purchase or leased

(A minimum five-year lease is required)

Vehicle to Building Pilot Program

ELECTRIC SCHOOL BUS GRANT PROGRAM



Scan the QR Code below to begin your application!



~\$76M has been awarded for 253 electric school buses

ELECTRIC SCHOOL BUS RESOURCES

- [Types of Electric School Buses](#)
- [All About Charging Infrastructure](#)
- [Step by Step Guide for ESB electrification](#)
- [Cold Weather Impacts on Electric School Buses](#)
- [Technical Assistance](#)
- [NJ Utility Contact Sheet](#)
- [Commercial Clean Vehicle Credit](#)





Important Links

1. [NJ's Medium & Heavy - Duty Vehicle Incentives](#)
2. [NJ DEP's Diesel Modernization Program](#)
3. [DEP's Electric School Bus Grant Program](#)
4. [NJ BPU Clean Fleet Program](#)
5. [NJ BPU's RGGI Medium and Heavy - Duty Vehicle Charging Program](#)
6. [NJ EDA's NJ Zero-Emission Incentive Program](#)
7. [NJ's Zero Emission Vehicle Tax Exemption](#)
8. [Federal Commercial Clean Vehicle Credit](#)



[Flyer: Electric Vehicle Resources for Local Government](#)

[Best Management Practices to Ensure Your Town is EV Ready](#)

[It Pay\\$ to Plug In: NJ's Electric Vehicle Charging Grants](#)

[New Jersey Clean Fleet Electric Vehicle Incentive Program](#)

[Dashboard for Rapid Vehicle Electrification: DRVE Tool](#)

[Climate Mayors Electric Vehicle Purchasing Collaborative](#)

[Electrifying Transportation in Municipalities: A Policy Toolkit](#)

[Alternative Fuel Vehicle Readiness: A Guidebook for Municipalities](#)

[Electric Vehicle Resource Kit for Municipalities](#)

Local Government

Resources

Follow NJDEP Bureau of Mobile Sources on social media!



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- **Facebook**

- NJDEPAQES

- **Twitter**

- @NewJerseyDEP

- **Visit** www.nj.gov/dep/drivegreen



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@newjerseydep

Join our DEP mailing list for updates and
funding announcements

www.state.nj.us/dep/stophthesoot/sts-listserv.htm