

New York Truck Voucher Incentive Program (NYTVIP)

New York's Electric Non-Road Industry and
Vehicle Availability

May 14, 2026



NYSERDA

Non-Road Equipment

- State of the Industry
- CORE Experiences and Deployments
- OZETI Tool
- New York Vehicle Availability



Equipment Types Eligible for NYTVIP




NYSERDA

Terminal Tractors

Terminal tractors are specialized trucks designed to move semi-trailers or shipping containers within warehouses, ports, or other distribution centers. Terminal tractors are also commonly called yard trucks or spotter trucks.

Major Manufacturers Eligible for NYTVIP

Autocar, BYD, Orange EV, TICO

 = Eligible for NYTVIP



Orange EV e-TRIEVER



Autocar E-ACTT




TICO Pro-Spotter Electric

Agriculture & Construction Equipment

Agriculture and Construction Equipment is specialized machinery designed for heavy-duty earthmoving, planting or harvesting, building, or material handling. Common equipment includes loaders, excavators, tractors, forklifts, and tillage tools.

Major Manufacturers Eligible for NYTVIP

Bobcat, HEVI, First Green Industries, Volvo

 = Eligible for NYTVIP



Bobcat T7X Compact
Track Loader



Volvo EC230
Excavator




First Green Industries
Elise 900 Loader

Large Forklifts & Cargo Handling Equipment

Large Forklifts and **Cargo Handling Equipment** are heavy-duty machinery designed to lift, move, and stack heavy materials in ports, construction sites, or warehouses. Common equipment includes cranes, forklifts, container handlers/lifts, reach stackers, and side loaders.

Major Manufacturers Eligible for NYTVIP

Yale, Hyster, Kalmar

 = Eligible for NYTVIP



Yale ERC060VG
Counterbalance Forklift



Taylor ZLC-996
Container Handler



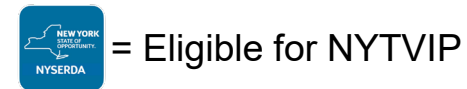
Hyster J90NX Heavy Forklift

Rail Car Movers, Freight Locomotives & Switchers

Rail Car Movers are specialized vehicles designed to move railroad cars within railyards. **Freight Locomotives** or trains are rail vehicles designed to haul cargo-carrying railroad cars. **Switchers** are low-speed trains designed to maneuver railroad cars within railyards.

Major Manufacturers Eligible for NYTVIP

Zephir



Zephir LOK 13.90E Railroad Vehicle




Shuttlewagon SWXe-120 Rail Car Mover

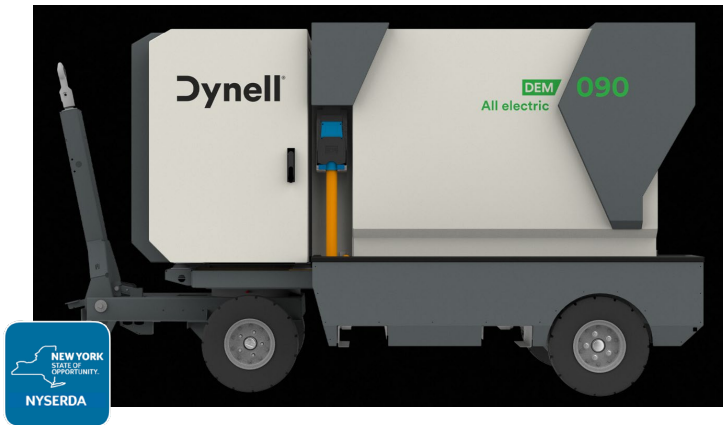
Airport Ground Support Equipment

Airport Ground Support Equipment are specialized vehicles used to assist and operate aircraft while on airport grounds. Common equipment includes ground power units, aircraft/baggage tractors, conveyors, and fuel trucks.

Major Manufacturers Eligible for NYTVIP

Dynell, ITW

 = Eligible for NYTVIP



Dynell DEM 045-90 GPU



Oshkosh Aerotech
LEKTRO 88i Tow Tractor




ITW GSE 7400 GPU

Transportable Refrigeration Units

Transportable Refrigeration Units are climate-control systems designed to cool or heat perishable products during transportation. Also called “reefers,” these units are typically mounted onto vehicles.

Major Manufacturers Eligible for NYTVIP

Advanced Energy Machines (AEM)

 = Eligible for NYTVIP



AEM Solar Tec
48k-16 TRU



Carrier Vector 8100 TRU



Thermo King e200 TRU



Interactive online global database for finding commercially available zero-emission off-road and non-road vehicles and equipment.

Browser address bar: <https://globaldrivetozero.org/tools/zeti-offroad/>

OFF-ROAD ZERO-EMISSION TECHNOLOGY INVENTORY

FILTER EQUIPMENT

Select Unit System
US Customary System (ft, lbs, °F)

Region Of Sale
 Europe
 US & Canada

Technology
(All)

Operational Range
(All)

Battery Capacity (kWh)
(All)

Additional Energy Capacity
(All)

Category Specific Features

GCWR
(All)

Maximum Motor Power

SELECT EQUIPMENT CATEGORY: Construction

Construction

Cargo-Handling Equipment

Terminal Tractor

Transport Refrigeration Unit

SELECT EQUIPMENT TYPE

- (All)
- Cranes
- Drill Rig
- Dumper
- Excavator
- Floor Scraper
- Handler
- Impact Crusher
- Loader
- Multipurpose Equipment
- Paver
- Roller

Summary

44 OEMs
63 Models

SELECT MANUFACTURER

State of the Industry

State of the Industry

Terminal Tractors

Electric terminal tractors are currently at cost parity or producing cost savings compared to internal combustion engine (ICE) counterparts. This has generally been the easiest and most common non-road equipment sector to electrify.

Agriculture & Construction Equipment

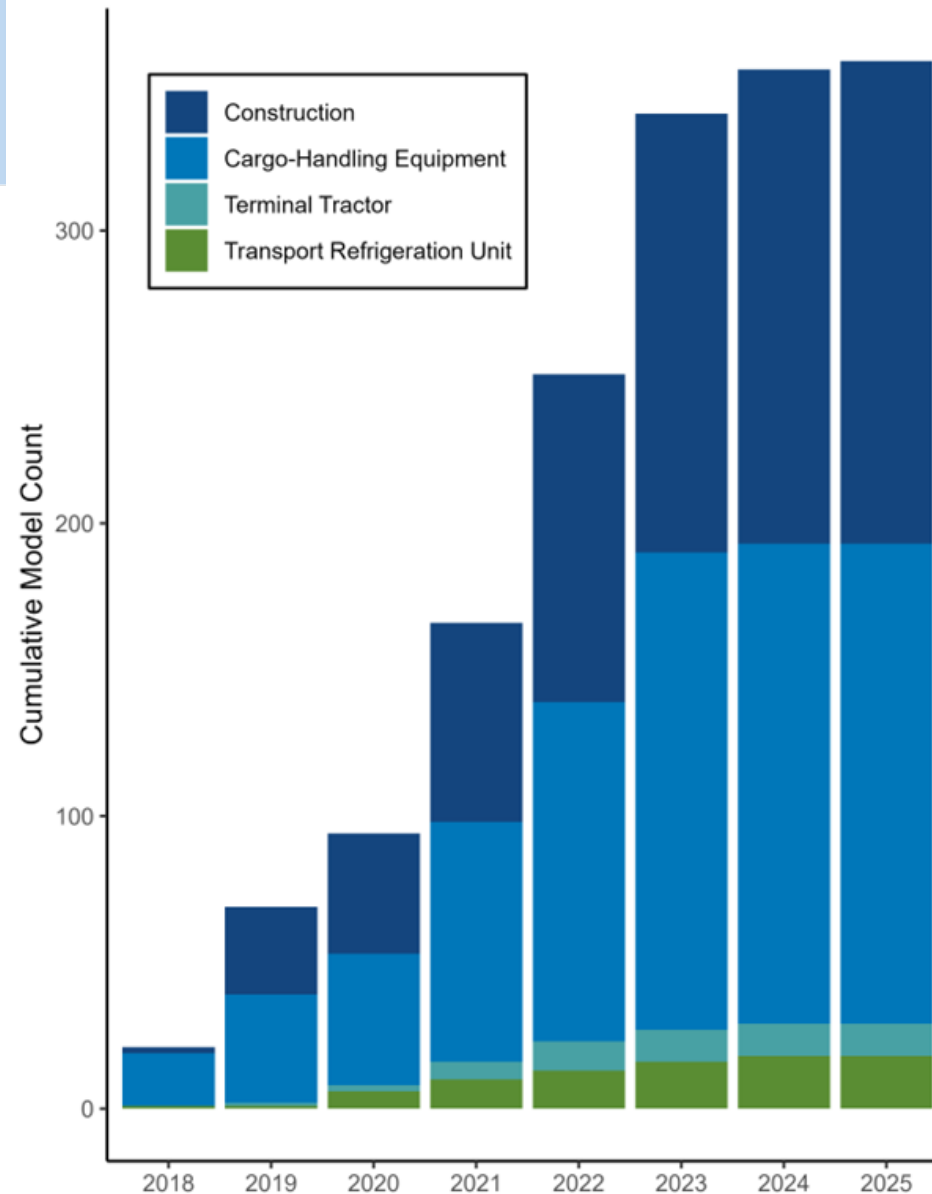
There have been successful deployments with light-duty equipment. Implementing the necessary charging infrastructure to support this equipment has presented some challenges for fleets.

Forklifts & Cargo Handling Equipment (CHE)

Forklifts are available in a wide range of sizes. Demand for CHE has been rapidly increasing, and technology is continuing to improve to cover higher weights and longer work cycles.

Model Availability Growth Over the Years

By Sector, 2018-2025



State of the Industry

Rail Car Movers, Freight Locomotives, & Switchers

Equipment suited for higher weights and longer weight cycles have begin to hit the market, though this sector is still in early development. The most popular use case is switchers inside rail yards.

Airport Ground Support Equipment

This is another rapidly growing industry. Most equipment is available in light weight capacities, but demand for higher weight capacities is increasing.

Transportable Refrigeration Units (TRUs)

Electric TRUs tend to cost more than their ICE equivalents but can offer lifetime savings from reduced fuel and maintenance costs. E-TRUs perform strongly.

Regional Deployments

Red Hook Container Terminal deployed ten BYD 8Y terminal tractors in its Port Newark and Port Elizabeth cargo operations, making it the largest deployment of electric yard tractors in the eastern United States



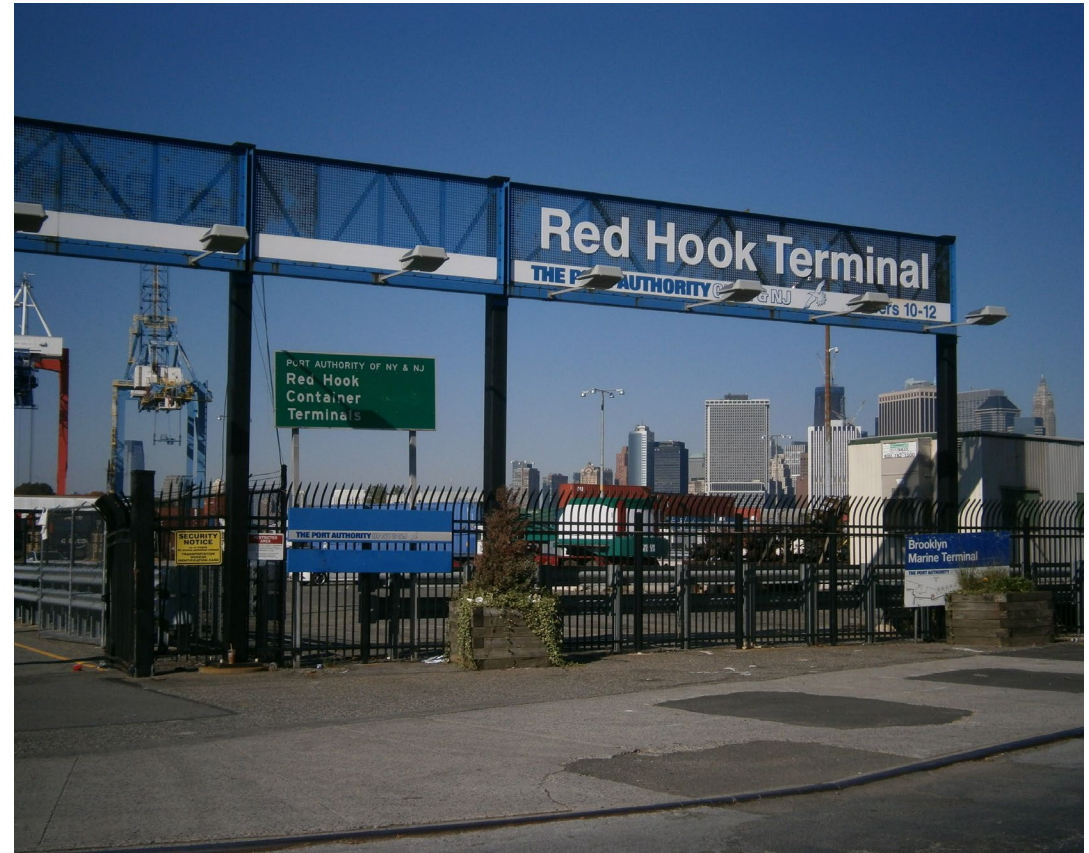
81%
reduction in
fuel costs



90%
reduction in
CO2 emissions



100%
operational
uptime



Regional Deployments



- Manhattan Beer deployed their first electric yard tractor in 2023 as a part of a continued effort to electrify their fleet
- New York-based fleets including Wegmans, Price Chopper, and FedEx have deployed over 30 electric terminal tractors through NYTVIP
- Port Authority of New York and New Jersey (PANYNJ) targets:
 - PANYNJ is aiming to reduce emissions by 50% by 2030 and reach net-zero by 2050
 - As of January 2025, any new terminal tractor added to the port's fleet must be a zero-emission vehicle

Regional Deployments

“ The fully electric yard trucks are a great example of the importance of using electrification in the right application. With 20 hours of run time, they fit seamlessly into our operation, and each one eliminates 2,500 gallons of diesel fuel annually, not to mention the 85% reduction in maintenance they offer. ”

Matt Harris
Wegmans Sustainability Manager for
Energy & Fleet Technology



Vouchers & Incentives



NYSERDA

NYTVIP Voucher Overview

- Non-road equipment is eligible for 35% off the base price of the model
- An additional 10% of the project costs is available to fleets located in a [Disadvantaged Community](#)
- Scrappage of ICE equipment is required
- Purchasers cannot be awarded more than \$2,000,000 in one calendar year

Equipment Type	Budget
Terminal Tractors	\$5 Million
Agriculture and Construction Equipment	\$4.5 Million
Large Forklifts and Cargo Handling Equipment	\$3 Million
Rail Car Movers, Freight Locomotives, and Switchers	\$2.5 Million
Airport Ground Support Equipment	\$2 Million
Transportable Refrigeration Units (TRUs)	\$1 Million
Total Funding Available	\$18 million

Scrappage

- One older piece of equipment must be scrapped for each new piece of equipment funded:
 - Usage and condition requirements apply - [See Implementation Manual](#) for full details
 - Equipment can be scrapped between Voucher approval and up to 90 days after the new Equipment delivery
- Scrapped equipment must be rendered fully inoperable



Operating and Reporting Requirements

- Equipment Purchaser must operate the equipment and comply with NYSERDA reporting requirements for the **five years** after first in-service date using their own or NYSERDA-provided telematics devices.
- Failure to meet operating requirements may result in a prorated reimbursement penalty.



Charging Infrastructure Support

- Non-Road Equipment is eligible for Make Ready Incentives
- Voucher recipients are eligible for [Joint Utilities of New York's Medium-and Heavy-Duty EV Make-Ready Pilot](#) which can provide incentives for **up to 90% of utility-side infrastructure costs.**
- Fleets can use the [contractor list](#) to find a contractor and apply for Make-Ready funding through their utility's [Make-Ready portal.](#)



DCAS Fleet Show

- Thursday May 21st from 10:00 am – 2:00 pm
- Corona Park, Queens
- Non-Road OEMs will be in attendance including Altec, Bobcat, Horizon Motors and many more!



NYC DCAS
Citywide Administrative Services

VISION ZERO 
Building a Safer City



This show highlights vendors who support the New York City's Clean Fleet and Vision Zero initiatives, and daily operations. Vendors will offer a wide array of products to improve vehicle safety. The show will also highlight vehicles and equipment with alternative fuels and emissions-reducing technologies, along with the latest in light and heavy-duty vehicles, trucks, horticultural equipment, tools, fleet services, and more!

Thursday,
May 21, 2026
9 a.m. - 2 p.m.

Accessibility Questions?
Contact DCAS Accessibility
at 212-386-0256, or email
accessibility@dcas.nyc.gov
by May 11, 2026



<https://www.nyc.gov/site/dcas/agencies/nyc-fleet-upcoming-events.page>

**37th Annual
Equipment & Vehicle Show**
Flushing Meadows Corona Park
(by the Unisphere), Queens, NY



 **NEW YORK STATE** | **Truck Voucher Incentive Program**

Questions About NYTVIP?

Contact the Voucher Help Center



NYTVIP@energycenter.org

(866) 595-7917

Monday - Friday

9:00 am - 5:00 pm EST



Visit the NYTVIP Website

nyscrda.ny.gov/truck-voucher-program/

Sign Up for the NYTVIP Email List

nyscrda.ny.gov/All-Programs/Truck-Voucher-Program/Email-Form

NYTVIP Website



NYTVIP Email List

