

## DCAS and U.S. DOT Volpe Issue First Clean Fleet Transition Plan

By: Keith Kerman

In [Executive Order 90](#), NYC commits to electrifying its fleet. Light, medium, and non-emergency vehicles will electrify by 2035 and emergency and specialized trucks by 2040. On September 23, 2022, [Mayor Adams and DCAS Commissioner Dawn Pinnock announced](#) that the fleet had surpassed the 4,000 mark for plug-in vehicles, a major early step on this journey.

Through [Executive Order 53](#), DCAS is charged with preparing Clean and Safe Fleet Transition Plans to chart the course for a cleaner, electric, and safer fleet. The order also calls on DCAS to support and advise other public and private commercial fleets as we all work towards more sustainable fleets of the future. DCAS Fleet has published four Safe Fleet Transition Plans to date and [recently announced a fifth Safe Fleet Plan](#), focusing on school buses.

In all of these reports, DCAS has partnered with the [U.S. Department of Transportation Volpe National Transportation Systems Center](#).

This week, DCAS and U.S. DOT Volpe released the [first Clean Fleet Transition Plan \(CFTP\)](#) in accordance with Executive Order 53. The report reviews electrification opportunities for each of NYC Fleet's 191 types of on and off-road equipment including fleet servicing police, fire, sanitation, correction, and school services. The report also discusses in detail the operational and infrastructure requirements for effective electrification.

DCAS and Volpe have been working for over 18 months on this report. As part of the review, Volpe interviewed 15 City agencies including BIC, DEP, DOC, DOE, DOE OPT, DOHMH, DOT, DPR, DSNY, FDNY, NYCHA, NYPD,

### Clean Fleet Transition Plan

NYC Department of Citywide Administrative Services (DCAS) Fleet

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**NYC DCAS**  
Citywide Administrative Services

U.S. Department of Transportation  
**Volpe Center**

OCME, OEM, and the Sheriff's Office.

Cover of the Clean Fleet Transition Plan released this week.

The report identifies 84% of our on-road vehicles that can be electrified based on vehicle options either available now in the marketplace or expected within the next five years. Currently, 41% of the fleet can be electrified, and another 43% within the next five years. This report lends support that DCAS will be able to meet its 2035 commitments in EO90 to electrify light and medium-duty vehicles.

For 16% of the City fleet, there are no current viable electric options in the marketplace that can fulfill the operational requirements for each agency. Emergency service trucks mostly fall into this category such as fire trucks and ladders, emergency service response units for NYPD, and plow trucks and salt spreaders for DSNY. The goal date for electrifying these units is 2040. Further market and product advancement will be required to meet the 2040 goal. DCAS will use this report to press market suppliers to respond to these gaps while also continuing work on renewable fuels, hybrids, and other vehicle design improvements that can be critical as we wait for fully electric options.

The City of New York operates over 5,000 off-road equipment pieces such as front-end loaders, forklifts, tractors, and chippers. These units are fuel and maintenance intensive. [The Clean Fleet Transition Report](#) also found progress for electrifying off-road equipment, although this area is less advanced than on-road.

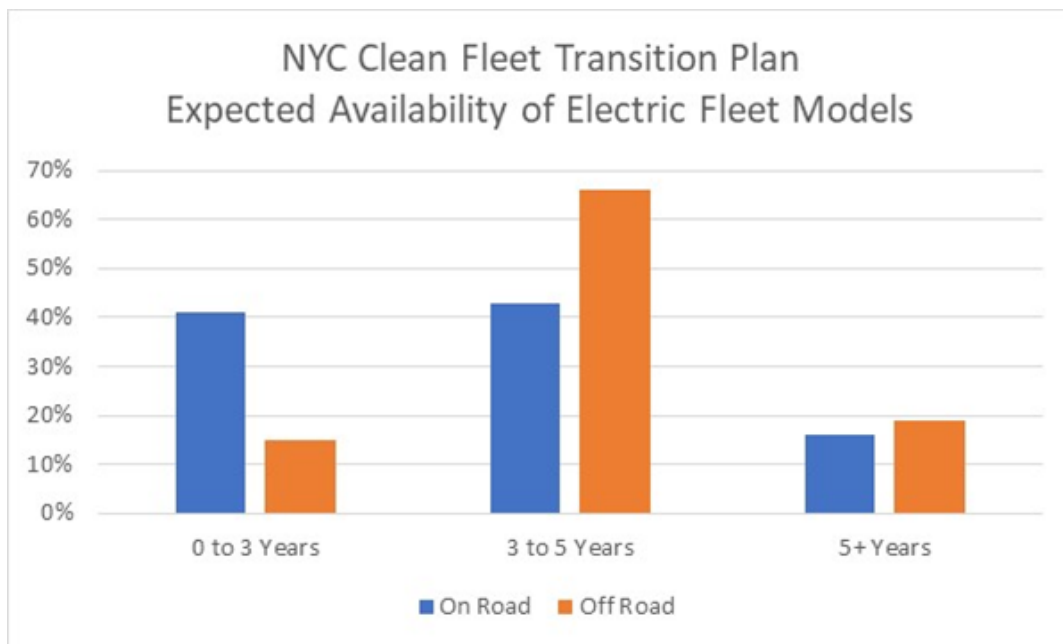


Chart showing the expected availability of electric fleet models currently compared to three and five years from now.

Within five years, 81% of these units are expected to have electric options. Currently, 15% have electric options now and an additional 66% are expected to have electric options within five years. The remaining 19% would be expected to use renewable fuels such as renewable diesel for the near-term future until zero emission options come into development. The City of

New York already operates many electric off-road units including solar light towers, signboards, electric gators, and forklifts.

The report discusses many practical implementation challenges including the need for ready and reliable electric vehicle (EV) charging, lack of plowing and off-road capacity for current EVs, the need for higher charging speeds for policing and emergency response, and the need for resiliency in EV infrastructure. The report also discusses the importance of training about EVs for drivers and mechanics, the potential safety implications of new EV technology, and opportunities to downsize fleet vehicles in support of electrification. DCAS and U.S. DOT Volpe will update this report every two years.

Thanks to Deputy NYC Fleet Chief Eric Richardson who coordinated the production of this report with Alex Epstein, Ph.D., and his team at U.S. DOT Volpe. Thanks to all the agency fleet and technical managers who participated in interviews and reviewed and supported this publication.

We look forward to working with all agency fleet and operational teams and our fleet operators in making these ambitious environmental goals a reality.

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## NYC Fleet Manual

The NYC Fleet Manual and Drivers Handbook has been updated. Please see the updated version at [NYC Fleet Manual and Drivers Handbook](#).

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## Fleet Vision International: The Show

[Fleet Vision International: The Show](#) was held on April 12 and 13 in London. DCAS Deputy Commissioner and Chief Fleet Officer Keith Kerman and NYPD Deputy Commissioner Robert Martinez discussed the electrification of the City's fleet and how NYC is a worldwide leader in sustainability. Presentations from the show will be posted to the [DCAS Fleet webpage](#).



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## COVID-19 Safety Reminder

For all fleet drivers, when interacting with others in close quarters such as within a vehicle, it is strongly recommended to wear a mask.

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## Check out past editions of the Fleet Newsletter

[NYC Fleet Newsletter 408, October 28, 2022](#): Our 7th Vision Zero Fleet Forum

[NYC Fleet Newsletter 407, October 14, 2022](#): Reducing Risk While Driving

[NYC Fleet Newsletter 406, September 30, 2022](#): Fleet Spotlight: Reggie Cooper, Ensuring the Quality of Our Fleet

[NYC Fleet Newsletter 405, September 23, 2022](#): Marking Climate Week, NYC Exceeds 4,000 Electric Vehicles

[NYC Fleet Newsletter 404, September 13, 2022](#): DOT Curbside Charging Opens Up for City of New York Fleet Use

Check out the [complete archive](#).

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