

# EV Fleet

## NYC Fleet

**Presentation to Mobile Sources Technical Review Subcommittee  
(MSTRS), EPA**

**Keith T. Kerman  
NYC Chief Fleet Officer  
Deputy Commissioner, DCAS  
December 29, 2023**

# NYC Fleet: Clean Fleet and Sustainability

Updated NYC Clean Fleet Plan

[HERE](#)

EO 53: All Electric and Safe Fleet

[HERE](#)

EO 90: Accelerating Electric Fleet

[HERE](#)

Clean Fleet Transition Plan, with US DOT Volpe

[HERE](#)

Local Law 140 of 2023, Electric by 2038

[HERE](#)



## Clean Fleet Transition Plan

NYC Department of Citywide Administrative Services (DCAS) Fleet

U.S. DOT Volpe National Transportation Systems Center: Alexander Epstein, Ph.D., Scott Lian, Ana Vargas, Andrew Breck, and Brian Xi

New York City Department of Citywide Administrative Services: Keith Kerman and Eric Richardson



Fall 2022

DOT-VNTSC-DCAS-22-01

Prepared for: Department of Citywide Administrative Services, City of New York

**NYC DCAS**  
Citywide Administrative Services

# NYC Clean Fleet Plan

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- NYC commits to 50x25 and 80x35 for City fleet
- Three basic strategies:
  - 1) Electrify everything we can as soon as we can
  - 2) Replace fossil diesel with biofuels
  - 3) Continue to implement hybrids and efficiencies

# EV Investment Announcement, Jan. 4, 2023



Vehicles Include Electric Transit Vans and Pick-Up Trucks for Agencies Citywide, and Electric Refuse Trucks and Hybrid Plug-In Street Sweepers for DSNY

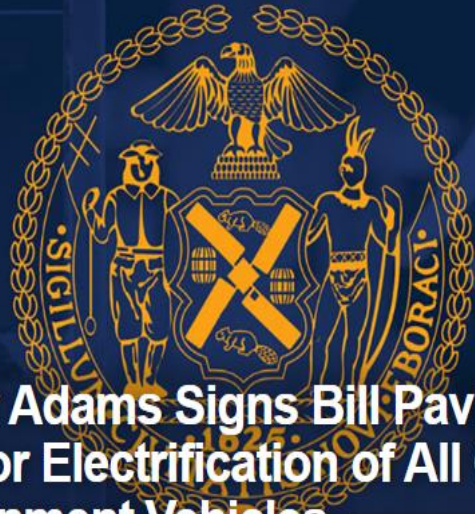
New Investments in Electric Vehicle Fleet Made Possible by \$10.1 Million in Federal Grant Funding

[HERE](#)

**Mayor Adams Announces Nearly 1,000 new Electric Vehicles to Replace Fossil Fuel-Powered City Fleet Vehicles, Deployment of new EV Charging Infrastructure**

January 4, 2023

# EV Fleet Bill Signing, October 23, 2023



## Mayor Adams Signs Bill Paving Way for Electrification of All City Government Vehicles ▶

Oct 23- New York City Mayor Eric Adams today signed Intro. 279-A, formally codifying the city's goal of transitioning its automobile fleet to

### RELATED LINKS:

[City Fleet On Path To Be Fully Electric By 2038](#)

[City Installing Solar Carports At NYCHA Parking Lots And Introducing Electric Vehicle Car-Sharing Program for NYCHA Staff](#)



# Intro 279

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At most summary level:

- Law codifies our electric fleet initiative currently under Mayoral EO 90.
- It accelerates the goal date for all fleet from 2040 in the EO to 2038, though with exemptions for market availability, costs, suitability for operations.
- All light and medium duty must be procured as EV starting July 1, 2025, unless exempted.
- All trucks and specialized must be procured as EV starting July 1, 2028, unless exempted.
- It introduces an annual report for DCAS to complete starting July 2025 on fleet EV, EVSE, training, and any personnel/labor force impacts.
- It requires DCAS to have a training initiative for mechanics and drivers.
- It introduces right to repair text to ensure electric vehicle vendors share service manuals and licenses to enable in-house repair for routine and standard servicing.
- It requires NYPD to procure most fuel efficient motorcycles and then transition to zero emission motorcycles by July 1, 2035.

# Electric Fleet

NYC Fleet Electric Vehicles



# NYC EV Fleet





# CBS News, NYPD Electric Fleet

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## **NYPD begins shift to electric vehicles**

The New York City Police Department is beginning a shift to electric vehicles, deploying 200 Ford Mach E's as the city looks to cut emissions. Kris Van Cleave takes a look at the new police cruiser.

APR 23, 2023

<https://www.cbsnews.com/video/nypd-begins-shift-to-electric-vehicles/>

# NY's Largest EV Charging Network



NYC Fleet EV Charging Network as of October 2023



**Total 1,805 Electrical Charging Ports**

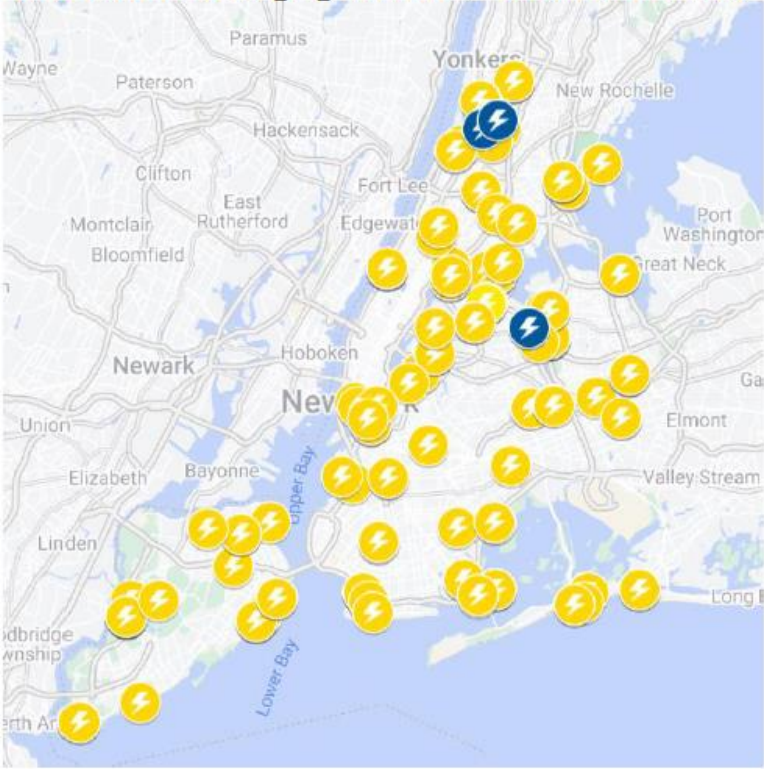
- 1,241 Level 2 Charging Ports
- 129 Solar Carports + 5 Solar Public Charging = 134 Total Solar Carports
- 216 DC Fast Chargers + 11 DC Fast Public Charging = 227 Total DCFCs
- 11 DOT Municipal Level 3 Chargers
- 65 DOT Municipal Level 2 Chargers
- 116 DOT Level 2 Curbside Chargers
- 11 Mobile Chargers

# Solar Carports

Google Maps

**NYC DCAS**  
Citywide Administrative Services

NYC Fleet EV Charging Network as of November 2023



**Total 155 Solar Charging Ports**

155 Solar Carports + 4 Solar Public Charging = 159 Total Solar Carports

# Public DCFC Charging Hub – World Fair Marina

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# EVSE in EJ locations



Dawn M. Pinnock, Commissioner  
Keith T. Kerman, Deputy Commissioner  
and Chief Fleet Officer

NYC Fleet Newsletter

November 3, 2023 - Issue 440

NYC Fleet Charging Ports		
	Ports	Percent
EJ Area	965	52%
Not EJ Area	600	32%
Potential EJ Area	306	16%
Total	1871	100%

## DCAS and NYCHA Add Sustainability to Fleet Partnership

By: Keith T. Kerman

On October 23, 2023, [Mayor Adams signed into law Intro 279](#), which calls for the City fleet to electrify by 2038. We discussed the new law in our last [newsletter](#).

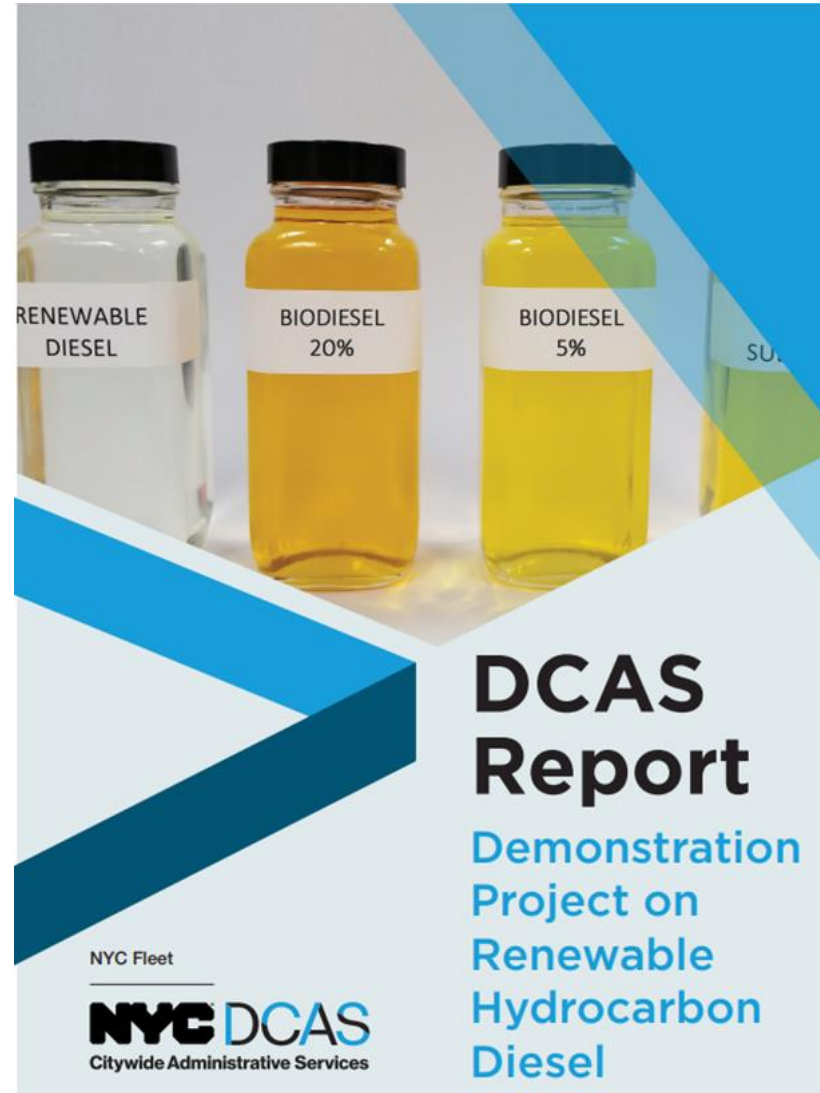
Mayor Eric Adams, First Deputy Mayor Sheena Wright, and DCAS Commissioner Dawn M. Pinnock also announced on October 23 a partnership between DCAS and the New York City Housing Authority (NYCHA) to expand fleet electrification and solar charging to four NYCHA complexes. This newest step is an important expansion of the DCAS and NYCHA Fleet partnership which began in 2018 and furthers the DCAS commitment to emphasize Environmental Justice (EJ) communities in placing electric charging and vehicles.



DCAS solar carport and shared Bolt at Sotomayor Houses in the Bronx.

# Renewable Diesel and Biodiesel

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# Renewable Diesel Announcement



THE CITY OF NEW YORK  
OFFICE OF THE MAYOR  
NEW YORK, NY 10007

FOR IMMEDIATE RELEASE: November 29, 2023  
CONTACT: [pressoffice@cityhall.nyc.gov](mailto:pressoffice@cityhall.nyc.gov), (212) 788-2958

## MAYOR ADAMS UNVEILS PLAN TO MAKE NYC FIRST EAST COAST CITY TO TRANSITION CITY'S HEAVY-DUTY FLEET VEHICLES TO RENEWABLE FUEL

*By Mid-2024, All 12,600+ Heavy-Duty Vehicles in City's Fleet Will  
Transition to Cleaner, Renewable Diesel*

*Transition Will Replace Up to 16 Million Gallons of Fossil Fuel Every Year*

**NEW YORK** – New York City Mayor Eric Adams and New York City Department of Citywide Administrative Services (DCAS) Commissioner Dawn M. Pinnock today outlined a plan that will make New York City the first city on the East Coast to transition all heavy-duty vehicles in the city's fleet from fossil to renewable fuel. The city's fleet currently includes more than 12,600 on- and off-road trucks and specialized equipment that operate on diesel fuel — but by the end of Fiscal Year 2024, they will all operate on renewable diesel.

Renewable diesel is [proven to reduce carbon emissions](#) and will replace up to 16 million gallons of fossil fuel used every year to power the city's heavy-duty fleet, which includes garbage trucks and ambulances. After the full rollout of 16 million gallons of renewable diesel, the city will have cut 128 billion grams of carbon dioxide pollution each year. The transition began this past September, with 2.5 million gallons of renewable diesel already used across heavy-duty vehicles.

"New York City continues to lead the way for the rest of the country by making our vehicles cleaner, greener, and safer," said **Mayor Adams**. "From our vehicles to our buildings and our food, we are making sustainability a critical component of all the work we do. This is the 'Get Sustainability Done' administration, and we will continue to serve as a model for cities across the globe in combating climate change while still delivering vital government services to New Yorkers every day."

# Fleet Efficiency Initiative

## Press Release

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Print

### Mayor Adams Reduces NYC's Vehicle Fleet, Saving Taxpayer Dollars and Reducing Carbon Emissions

April 25, 2022

*City Will Save \$13.7 Million Through New Measure as Part of Upcoming Executive Budget*

*City Car Fleet Will Shrink to Bloomberg-Era Levels, With Focus on Reduction of Vehicles Used for Employee Commuting*

**NEW YORK** – New York City Mayor Eric Adams today announced a reduction of the city's vehicle fleet by at least 855 vehicles in an effort to save taxpayer dollars and reduce carbon emissions. The four percent reduction of the on-road fleet will focus on non-emergency vehicles, and will reduce the city's fleet to its size in the Bloomberg administration. In all, the plan announced today is expected to result in 5.13 million fewer miles driven per year — representing a 2,072 metric ton reduction in carbon dioxide emissions.



# Hybrid Police Cars and Ambulances

## NYPD shifting to hybrid SUVs, electric vehicles as traditional fleet is gradually retired

SUVs, which include both hybrids and all-electrics, are becoming the new norm as the NYPD starts to retire its traditional sedan-based vehicle fleet

Sep 19, 2022

By Thomas Tracy  
New York Daily News

NEW YORK — Siren-blaring SUVs — hybrids and all-electrics — are becoming a staple at New York City crime scenes as the NYPD gradually retires its traditional sedan-based vehicle fleet.

New all-electric Ford Mustang Mach-E Sport Crossover Utility Vehicles, which were shown off at this year's New York Auto Show, are among the vehicles expected to take the places of the four-door "police interceptor" sedans New Yorkers have seen on city roads for decades.



SUVs are becoming the norm for the NYPD as they move away from the iconic sedan. (Photo/Screenshot)

But the department isn't ready for an all-electric fleet just yet — so it's stocking up on hybrid Ford Explorer SUVs, said Robert Martinez, deputy commissioner of the NYPD's support services bureau.

The SUVs have a number of advantages over the older sedans, including higher seats that give officers a better view when they respond to emergency calls, Martinez said. They also have more storage space and are roomier than the sedans. Anyone who has had the misfortune of riding in one will tell you the sedans have cramped back seats.

The Ford Explorers also have four-wheel drive, which will help cops respond to emergencies quicker in snow and stormy weather, Martinez said.

"Years ago when we only had cars with rear-wheel drive, we would have to put chains on our tires every time it snowed, which would lead to overtime costs," Martinez said. "We no longer have that issue."

One reason for the NYPD's increased use of SUVs is that new police-rated sedans are disappearing from the market.

## Stealth Power Keeps Ambulances Rolling in NYC

Stealth Power's automatic idle reduction system saves FDNY money and reduces harmful emissions while providing fleet management data through Microsoft's Azure and IoT solutions.

NEWS PROVIDED BY  
Stealth Power →  
12 Jul, 2019, 14:45 ET

SHARE THIS ARTICLE



AUSTIN, Texas, July 12, 2019 /PRNewswire/ -- Stealth Power, the leader in intelligent energy and idle reduction technology, is working with the Fire Department of New York City (FDNY) to reduce fuel consumption in their ambulances, cut operational costs and lower carbon emissions.

The largest and busiest fire department in the US, FDNY responds to almost 2 million emergencies every year, serving more than 8.5 million people within a 302-square-mile area. For rapid response time, the department keeps more than 400 ambulances in the streets on standby 24 hours a day, seven days a week - and each vehicle can spend up to 15 hours each day with engines idling.

Working closely with FDNY, Stealth Power built a customized automatic idle reduction system (SPAIRS) that reduces vehicle idling and lowers fuel and maintenance costs, while keeping mission-



Stealth Power

# Diesel Particulate Filters, Retrofit Local Law

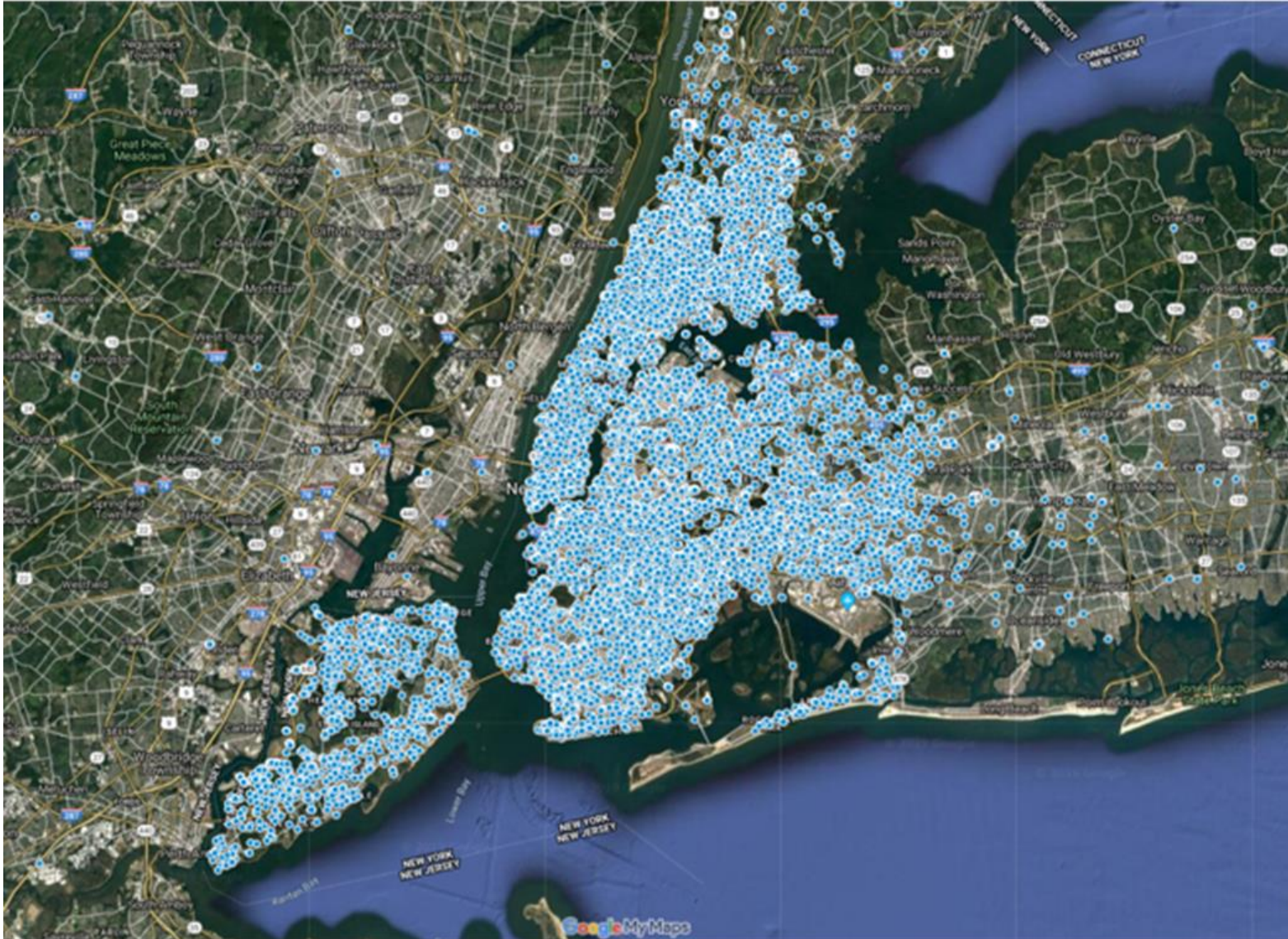
AGENCY	TOTAL NUMBER OF PRE 2007 NON-EMERGENCY DIESEL VEHICLES WITHOUT DPFs or MISSING DATA (1)	TOTAL NUMBER OF PRE 2007 NON-EMERGENCY DIESEL VEHICLES RETROFITTED WITH DPFs	TOTAL NUMBER OF PRE 2007 NON-EMERGENCY DIESEL VEHICLES LISTED FOR SALVAGE	IN PROGRESS OF INSTALLATION BY DCAS	TOTAL NUMBER OF PRE 2007 NON-EMERGENCY DIESEL VEHICLES	TOTAL NUMBER OF 2007 AND LATER NON-EMERGENCY DIESEL VEHICLES	ALL NON-EMERGENCY DIESEL VEHICLES	PERCENT of All NON-EMERGENCY DIESEL VEHICLES IN COMPLIANCE (2)
DCAS/ DCAS CLIENTS	1	12	1	3	22	175	197	96.59%
DEP	10	31	7	0	48	536	584	98.29%
DOT	86	62	1	0	150	1118	1268	93.14%
PARKS	4	0	2	0	7	775	782	99.36%
DSNY	74	8	0	0	82	3854	3936	98.12%
DOHMH	0	3	0	0	3	19	22	100%
<b>TOTAL</b>	<b>175</b>	<b>116</b>	<b>11</b>	<b>3</b>	<b>312</b>	<b>6477</b>	<b>6789</b>	<b>97.32%</b>
'(1) This column includes the 147 Diesel Vehicles that have a Diesel Oxidation Catalyst (DOC) installed. While LL73 calls for the tracking of DPF compliance, the reduction in diesel pollutants by using these devices should be noted.								
'(2) Compliance includes units with retrofit DPFs, units purchased 2007 or later and governed by federal law on DPFs, units currently scheduled for salvage and units currently being retrofitted by DCAS.								

# Multiple Technologies

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# Fleet is Everywhere!



# Contact

For more information, go to the NYC Fleet website:  
<http://www.nyc.gov/html/dcas/html/employees/fleet.shtml>

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DCAS

THANK YOU