

NYC Fleet



Stakeholder Challenge

Mobility and Transportation

NYC Fleet

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NYC Clean Fleet: Our Sustainability Goals

With Paris Climate Talks Underway, Mayor de Blasio Announces NYC Clean Fleet - Launching the Largest Municipal Electric Vehicle Fleet in the U.S.

December 1, 2015

City Will Cut Municipal Vehicle Emissions in Half by 2025, 80 Percent by 2035 – Another Key Step Toward 80 Percent Reduction in All Emissions by 2050

NYC Mayor orders all-electric fleet by 2040 and end to expansion of fossil-fuel-related infrastructure

10 February 2020

New York City Mayor Bill de Blasio last week issued an **executive order** specifying the attainment of an all-electric “carbon-neutral” fleet by the year 2040. New York City operates more than 30,000 owned and leased vehicles (on-road and off-road), the largest municipal fleet in the United States.

Under the executive order, New York’s Department of Citywide Administrative Services (DCAS) and NYC Fleet are to issue and implement a Clean Fleet Transition Plan, updating it every two years. The CFTP will outline alternative fuel, fuel efficiency and electrification for all City fleet units by type.

Section 4. Fleet of the Future Network. DCAS, working with the Department of Transportation (DOT), the Business Integrity Commission (BIC), the Department of Consumer and Worker Protection (DCWP), the Mayor’s Office of Sustainability (MOS), and others will establish a contact list and communication network for public, private, and non-profit fleets operating in the five boroughs of the City of New York. This network will be used to establish lines of communication on issues of sustainable and safe fleet operation. DCAS will establish newsletters, events, and trainings aimed at these partner fleets and will share best practices throughout the network.

Climate Week: City Announces \$75 Million in new Investments for Electric Vehicles and Electric Vehicle Charging Infrastructure

September 22, 2021

Funding will add 275 electric vehicle chargers, replace 300 gas-powered City fleet vehicles, and retrofit diesel-powered trucks to run on electric

NEW YORK—Mayor Bill de Blasio, the NYC Department of Citywide Administrative Services (DCAS), and the Mayor’s Office of Climate and Sustainability, today announced a \$75 million investment in electric vehicles and electric vehicle charging infrastructure to support the City of New York’s vehicle fleet. The new investments will help the greenest municipal vehicle fleet in the country become even greener.

The investments include:

1. 300 electric vehicles to replace fossil fuel-powered models
2. 275 fast vehicle chargers
3. 20 portable vehicle chargers
4. 11 new solar charging carports
5. 3 electric buses to replace diesel models
6. 78 electric ambulances
7. In addition, the City will retrofit 125 existing diesel-powered trucks to be electric-powered.

These and other investments are part of the City’s plan to transition its entire vehicle fleet to electric vehicles.

“Climate change is an existential threat facing our city, our nation, and our world,” said **Mayor Bill de Blasio**. “You can count on New York City to lead the way when it comes to finding sustainable climate solutions, fighting back against global warming, and building a greener future for the next generation.”

The Challenge: EVSE Charger Resiliency and Backup Power for Emergency Services and Critical Service EVs



Google Maps



NYC Fleet EV Charging Network as of 10/08/2021



Total 1,071 Electrical Charging Ports

- 891 Charging Ports
- 89 Solar Carports - 3 Solar Public Charging)
- 90 DC Fast Chargers - 11 DC Fast Public Charging)
- 1 Mobi Mobile Charger



The Obstacles: Ensuring EVs and EVSE is Operational Through IT, Network, and Power Loss Events



Photographer: Samuel Corum/Bloomberg

Cybersecurity

Hackers Breached Colonial Pipeline Using Compromised Password

By [William Turton](#) and [Kartikay Mehrotra](#)

June 4, 2021, 3:58 PM EDT



Benefits and Consequences

- Resiliency will be required for move of EVs to large commercial and public fleets, especially those with critical or emergency related services. If the power goes out today, cars and fleets still operate. Will that be true in an EV tomorrow?
- Confidence in the move to EVs in general could be greatly shaken by a major down period or failure of charging capacity.
- Alternatively, addressing resiliency and backup power up front will provide a needed boost to continue this transition above the 5 to 7% adoption rates of today.
- EV resiliency can run in both directions. EV vehicles such as school busses are potential source to assist grid in peak load management periods. Solar solutions for buildings could also support EV adoption.
- These same type of issues will be critical as we look to electrification in other areas such as heating systems for facilities.

Regarding Mobility and Transportation, to achieve NY's 2050 Carbon & Equity goals, a critical obstacle for NYC Fleet to overcome is resiliency and backup power for electric charging.



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