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# electric



## NYPD goes electric

### *Author*

Keith Kerman, Deputy  
Commissioner, Chief Fleet  
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The New York City Police Department operates the largest police fleet in North America and is leading the way on implementing hybrid and all-electric vehicles for law enforcement.

**W**ith more than 8,000 on-road vehicles, the New York City Police Department (NYPD) is one of the largest police fleets in the world. It is also one of the most advanced in converting to hybrid and electric vehicles. The NYPD operates 2,091 hybrid and all-electric units, the largest alternative fuel fleet among all New York City government agencies.

Given the unique needs of law enforcement fleet, the NYPD is exempt from the New York City Local Law requiring City agencies to purchase the most fuel-efficient vehicles. Nonetheless, under the keen leadership of Deputy Commissioner Robert Martinez, the NYPD has embraced new, cleaner technology to improve driving and idle emissions, reduce

fuel costs, and improve fleet readiness. The NYPD has found that hybrids are reducing both fuel use and costs, and far less likely to overheat during the hot summer months than comparable gas-powered vehicles, when police vehicles may be idling for long periods.

'It is not too often that you can save money, increase the reliability of your fleet, and go green – all at the same time,' says NYPD Deputy Commissioner Robert Martinez. 'This is one of those times.'

The NYPD is not alone in making this transition. Other City agencies and teams with law enforcement missions are also going green. This includes the Departments of Correction and Probation, the Parks Enforcement Patrol, the law enforcement divisions at the

*Above:* The NYPD currently operates 2,091 hybrid and all-electric units, the largest alternative fuel fleet among all New York City government agencies.

Celebrating excellence in frontline fleet and essential services

# FLEET VISION INTERNATIONAL - THE AWARDS

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**12 April, 2022**

Awards and Gala Dinner  
The Guildhall, City of London

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# electric

NYC Fleet - electric and hybrid fleet in law enforcement 2022					
Agency	Electric gas hybrids	Electric gas plug-ins	All electric	Diesel hybrid	Total
Business Integrity Commission	3	6	1	0	10
Environmental Protection Police	56	5	14	0	75
Department of Correction	103	77	48	1	229
Department of Investigation	26	0	0	0	26
Department of Probation	48	38	0	0	86
Department of Sanitation	32	24	0	0	56
Park Enforcement Patrol	21	17	18	1	57
NYC Police Department	1976	12	102	1	2091
NYC Sheriff	39	3	1	0	43
Taxi & Limousine Commission	88	15	0	0	103
<b>Total</b>	<b>2392</b>	<b>197</b>	<b>184</b>	<b>3</b>	<b>2776</b>

*Above:* Distribution of NYC Fleet's electric and hybrid vehicles by City department in 2022.

Departments of Sanitation and Environmental Protection, the Business Integrity Commission (which regulates commercial waste management), the NYC Sheriff's Office, taxi enforcement officers at the Taxi and Limousine Commission, and investigators at the Department of Investigation and the NYC Office of the Medical Examiner.

These agencies currently operate a combined total of 381 plug-in units, including 184 all-electric and 2,392 hybrid units. The vehicle models deployed include the Chevy Bolt, the Ford Fusion Energi, the Mitsubishi Outlander, the Chrysler Pacifica, the Nissan Leaf, Tesla's Model 3, and the Toyota Prius Prime. The NYPD is also using biodiesel blends for its trucking and off-road fleet.

NYC has committed to achieving an all-electric fleet, with 2035 as the goal for law enforcement light-duty vehicles. NYC has also committed to reducing fuel use and emissions from fleet vehicles by 50% by 2025 and 80% by 2035.

Law enforcement is the largest part of the NYC fleet and among the most heavily taxed. If the City is to achieve an all-electric fleet by 2035, law enforcement vehicles will need to lead the way.

New York City is committed to working with the NYPD and all the City's law enforcement agencies to implement fleet models and electric charging that fully meets the needs of officers, supports their essential mission of ensuring public safety, and eliminates harmful emissions.

Working with DCAS and the Office of Management and Budget (OMB), law enforcement in NYC is now going even further with electrification. In December 2022, DCAS ordered the City's first Ford all-electric

Mach-Es, many in the GT model, for law enforcement purposes. The NYPD alone will receive 148 of the 184 total units ordered. ([See the City's December 29, 2021 announcement.](#))

This is the City's largest order of all-electric policing units to date. The Mach-E has 260 miles of battery range and can go from 0-60mph in under four seconds. This investment will enable the NYPD and the other law enforcement agencies to put their electric units to the test operationally and work out maintenance, charging, lights and sirens, bulletproof protection, interior partitions, and other day-to-day practicalities. This assessment phase will be critical as NYC continues to develop plans for an all-electric enforcement fleet. The new vehicle units will also be the first vehicles in NYC to deploy a version of Intelligent Speed Assist.

For non-emergency light-duty EVs, the City's fleet has achieved above [60% reduction in maintenance costs and breakdowns](#). NYC will conduct a similar assessment for the all-electric fleet used in more rigorous law enforcement roles.

'The Sheriff's Office appreciates the direction of investing in electric vehicles for law enforcement purposes,' said New York City Sheriff Joseph Fucito.

'Law enforcement EV use is a powerful step towards reducing climate-changing greenhouse gases, lowering the risk of respiratory illnesses, reducing noise, and ending a long reliance on fossil fuels. Protecting people and the environment at the same time are important goals for the future of public safety.'

In addition to EVs, NYC must establish charging resources and plan for emergency backup power. DCAS recently completed the installation of 29 fast 50 KW chargers

at NYPD locations, and will be installing an additional 32 fast chargers for the NYPD alone in the next 18 months. DCAS currently installs 50 KW chargers and will be looking to increase charging power and speeds, potentially up to 250 KW, to ensure that NYPD vehicles can be powered up as quickly as possible.

NYC is also exploring backup power options. DCAS currently operates 89 portable solar carports, the largest such network in the world. These units are completely off the grid and can provide emergency power in the case of blackouts. The Department of Correction has been operating the City fleet's first mobile charging unit, known as a Mobi. This battery on wheels allows staff to bring charging to vehicles and can also serve as emergency backup chargers. DCAS will be investing in additional carports and mobile chargers as it explores additional approaches to emergency resiliency and backup power.

If you can make it in NYC, you can make it anywhere – or so the saying goes. If all-electric and hybrid vehicles can meet the needs of the NYPD, the largest municipal police department in the world, then they are, arguably, ready for any use anywhere. DCAS is excited about the unique opportunity to lead this critical effort.



**FLEET VISION INTERNATIONAL SHOW**

**12-13 April, 2022**  
Guildhall, London

Bob Martinez and Keith Kerman will be speaking at Fleet Vision International – THE SHOW at which NYC is a founding partner.

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