



NEW YORK STATE ENVIRONMENTAL EXCELLENCE AWARD CASE STUDY

New York City's Department of Administrative Services – *Honored for being an outstanding model of sustainable fleet management.*

SUMMARY

New York City's (NYC) Department of Administrative Services was awarded in 2014 for its Fleet Sustainability Program, which offers a cutting-edge model for sustainable fleet management. NYC operates the largest municipal fleet in the nation and through this multi-faceted program, achieved strategic reductions in greenhouse gas emissions. The City's Department of Administrative Services is continually advancing sustainable practices by publishing fleet procedures, assisting in drafting local laws and sharing information at forums, events, and their annual "Fleet Show."



BENEFITS

NYC's Fleet Sustainability Program is a multi-faceted approach employing numerous sustainability strategies. This outstanding program has already reduced greenhouse gas emissions by more than 9 percent. NYC has one of the nation's largest hybrid and electric plug-in fleets and the nation's most extensive fleet biodiesel program. The City also has compressed natural gas (CNG) vehicles, including sedans, garbage trucks and vans. They are complementing their alternative-fuel initiatives with innovative management strategies such as "right-sizing," fleet sharing, diesel exhaust retrofits and fuel-management programs.

KEY METRICS

- 9.3% reduction in greenhouse gas emissions between 2006 and 2012
- Anticipated 30% reduction of greenhouse gases by 2017
- 95% of the light and medium-duty vehicles are in the lowest polluting class
- 50% fuel economy with hybrids over gas models

ABOUT NEW YORK CITY'S FLEET

- 27,000 vehicles operated by 10 agencies
- Operates 5,242 hybrid gas electric vehicles, 43 hybrid diesel electric trucks and 695 plug-ins, including electric carts, police scooters, and forklifts

NYS Environmental Excellence Award: Annual recognition of outstanding innovative and sustainable projects or programs and unique partnerships that are improving and protecting New York State's environmental resources and contributing to a stronger economy

A MODEL OF EXCELLENCE

- Implementing the nation's largest fleet share program in partnership with Zipcar
- Testing fuel emissions at the heavy-duty Vehicle Emissions Testing and Analysis Facility (VTAF), which simulates road conditions
- Piloting new technologies to reduce ambulance and other emergency vehicle idling
- Experimenting with diesel-electric hybrids in new applications, for example hybrid electric bucket trucks, which allow the boom to operate while the engine is shut off
- New York City's Police Department is implementing hybrid vehicles with law enforcement operations
- New York City Council's ground-breaking legislation requires fleet sustainability

HIGHLIGHTS

As of 2014, NYC operated 5,242 hybrid gas electric vehicles and had established policies to replace all non-emergency sedans with alternative fuel units. Diesel hybrids offer the potential to reduce diesel fuel use and to greatly reduce emissions, especially when used in conjunction with biodiesel and new diesel particulate filters.

NYC uses the Chargepoint network to connect all the sites and operators and to enable use and performance reporting for plug-in vehicles. At the time of the award, the City was operating 193 electric chargers. It also piloted innovative solar electric technology, including solar electric light towers and solar electric carts, which are completely off the grid as they use solar rechargeable electric batteries.

All on-road NYC diesel units use biodiesel blends, including most fire, corrections and police units. The City reduced fuel costs by switching from D1 to D2 diesel in its biodiesel blends. The City has implemented a new automated fuel and vehicle tracking system to enable tracking and analysis of fuel use on a daily basis for each site and vehicle. And, the City reduced the number of light-duty non-emergency vehicles by about 500 units and exchanged larger pickup trucks for smaller, more fuel-efficient units.

FUNDING

The City has mainly used City capital and expense dollars to fund the Fleet Sustainability Program, committing over \$100 million.

The City has received support through Federal Clean Cities (CMAQ) funds administered through the NYC Department of Transportation. NYC has invested or is investing over \$36 million through CMAQ. In addition, DCAS has received support through agreements with the New York Power Authority to procure plug-in electric vehicles and electric vehicle-charging systems.