

Update for the National Biodiesel Board NYC Fleet

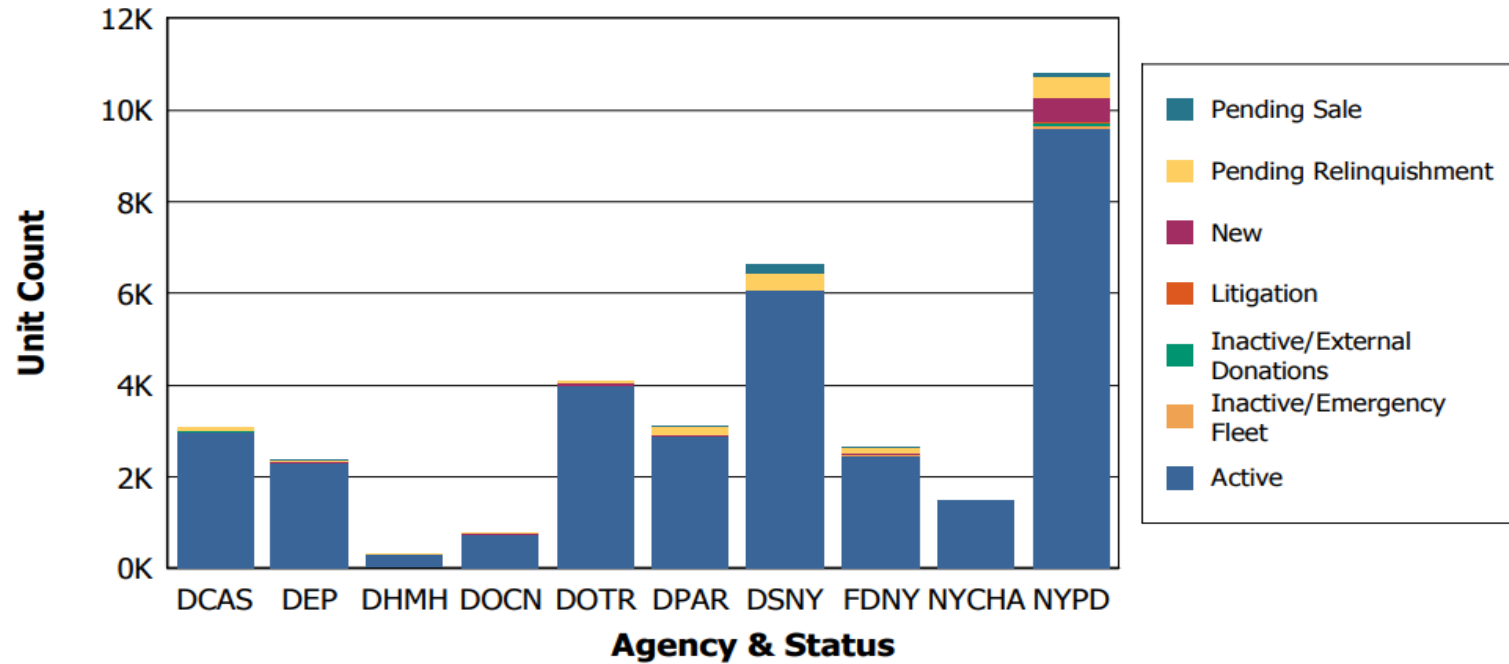
Keith T. Kerman
NYC Chief Fleet Officer
Deputy Commissioner, DCAS
Arsenal, Central Park
July 29, 2021

NYC Fleet: Largest Municipal Fleet in US



NYCFLEET
Report Printed: 03/01/2021 06:18:59

Fleet Roster Report Including City Owned, Rentals, and Leases



* Total Units: 35,515

DCAS Includes Client Fleets

NYC Fleet Fiscally

NYC Fleet Costs FY20	
Cost Area	(\$)
Vehicle Acquisitions	\$286,184,598
Personnel costs	\$266,551,056
Fuel, Vehicle and Heating	\$92,502,029
Parts and motor oil	\$79,005,488
Contracts	\$30,115,053
Renting and leasing equipment	\$36,502,997
Revenue, Claims and Auction	(\$12,323,036)
Litigation, Fleet Collisions	\$145,618,320
Total	\$924,156,505
<p><i>Sources:</i> FMS for OTPS; DCAS Personnel, Revenue, Fuel, and Acquisitions Tracking; Law Manager for Claims</p> <p><i>Note:</i> Chart does not include garage facility and overhead costs</p>	

NYC Clean Fleet Plan

NYC Clean Fleet will do the following:

- Replace approximately 2,000 fossil fuel sedans with plug-in electric vehicles (EVs), which, combined with the over 300 EVs currently on the road, would mean EVs will make up half of the City's non-emergency sedans and create the **largest municipal electrical vehicle fleet in the United States and, potentially, the world**. Sedans are the single largest category of vehicles in the City fleet, and this transition would reduce gasoline consumption by approximately 2.5 million gallons a year and reduce the City fleet's emissions by nine percent by 2025.
- Expand the use of **anti-idling, hybrid, and stop-start** technologies in medium- and heavy-duty vehicles, such as sanitation trucks, to substantially reduce emissions and gasoline use while at rest. These technologies can reduce a vehicle's fuel consumption by up to 33 percent and total fleet emissions by five percent.
- Increase the use of alternatives to traditional diesel fuels, including higher biodiesel blends, compressed natural gas, or renewable diesel, to **displace the use of traditional diesel fuel in City vehicles by 2035**. These diesel alternatives are estimated to reduce emissions by 34 percent.

<https://www1.nyc.gov/office-of-the-mayor/news/898-15/with-paris-climate-talks-underway-mayor-de-blasio-nyc-clean-fleet--launching-the>

Electricity and biofuels needed in tandem to meet climate goals, UN report says

By Gerardo Fortuna | EURACTIV.com

Nov 8, 2018 (updated: Nov 19, 2018)



Local Laws and Biodiesel

LOCAL LAWS
OF
THE CITY OF NEW YORK
FOR THE YEAR 2013

No. 73

Introduced by Council Members Gennaro, Levin, Eugene, Fidler, Mark-Viverito, Mendez, Palma, Richards, Chin, Gentile, Vallone and Brewer.

A LOCAL LAW

To amend the administrative code of the city of New York, in relation to reducing the emissions of pollutants from vehicles used by or on behalf of the city of New York.

LOCAL LAWS
OF
THE CITY OF NEW YORK
FOR THE YEAR 2013

No. 107

Introduced by Council Members Gennaro, Arroyo, Barron, Brewer, Comrie, Eugene, Fidler, James, Koo, Koppell, Mark-Viverito, Mendez, Richards, Rose, Williams, Wills, Rodriguez, Levin, Gentile, Lander and Ulrich.

A LOCAL LAW

To amend the administrative code of the city of New York, in relation to increasing the use of biofuel in city-owned buildings.

THE CITY OF NEW YORK
FOR THE YEAR 2016

No. 119

Introduced by Council Members Constantinides, Gibson, Kallos, Koo, Rose, Wills, Mendez, Rodriguez, Rosenthal, Johnson, Espinal, Levine, Koslowitz, Richards, Vacca, Williams, Garodnick, Dromm, Reynoso, Maisel, Crowley, Chin, Van Bramer, Levin, Torres, Menchaca, Palma, Lancman, Cohen, Barron, Cornegy, Ferreras-Copeland, Treyger, Lander and Vallone.

A LOCAL LAW

To amend the administrative code of the city of New York, in relation to the use of clean heating oil.

Be it enacted by the Council as follows:

Section 1. Section 24-104 of the administrative code of the city of New York is amended by adding a new definition for “feedstock” in appropriate alphabetical order to read as follows:

“Feedstock” means soybean oil, oil from annual covercrops, algal oil, biogenic waste oils,

NYC Parks and Biodiesel



Volume XX, Number 4362

Tuesday, May 24, 2005

CLEANING UP AT THE ANNUAL FLEET SHOW

Last Wednesday, May 18, Parks & Recreation held its 17th annual vehicle and equipment show at Randall's Island. The trade show was attended by a record-breaking 110 vendors, along with staff from Parks, City and state government, and the non-profit world. Even the Office of Management & Budget (OMB) came by, to scope out the products we spend our equipment monies on.

This year's show highlighted some of Parks' fleet innovations. Marty Borruso from Environmental Alternatives was on hand, displaying vehicles fully powered by bio-diesel. Made from soybean plants, biodiesel is a safe, environmentally friendly, organic fuel source that greatly reduces emissions. Environmental Alternatives is currently partnering with Parks to fuel up to 20 heavy-duty vehicles in Staten Island with biodiesel.

Randall's Island Park

Parks Paves The Way For Reduced Emissions

Tuesday, May 22, 2007

No. 65

<http://www.nyc.gov/parks>

Parks & Recreation today hosted its 19th Annual Vehicle and Equipment Show on Randall's Island. Over 130 vendors presented the latest in light, medium and heavy-duty vehicles, with an emphasis on clean and alternative fuel technologies.

"Parks is delighted to host our 19th annual fleet and vehicle show and highlight some of the most advanced alternative fuel technologies available," said Commissioner Adrian Benepe. "Parks is dedicated to greening our city and you can't get any greener than having a clean fleet. All of our efforts combined with others across the city will help to realize Mayor Bloomberg's PlaNYC initiative to improve the City's air quality."

A special section at the show featured biodiesel trucks, hybrid and solar-powered vehicles, and electric equipment, among others. The show featured the first examples we have shown of hybrid medium-duty trucks (previously we have shown mostly light duty).

Parks is actively involved with Mayor Bloomberg's PlaNYC initiative to clean the City's air and is pursuing a number of initiatives to "clean its fleet." Parks is the first City agency to use biodiesel agency-wide—all 650 of our trucks now use biodiesel. Biodiesel is made in the U.S. from organic sources, burns cleaner than regular fuel and is renewable. Parks currently uses biodiesel made from soybean oil and was the first City agency to combine the ultra low sulfur diesel with biodiesel. This summer we will be piloting Biodiesel 50 at Orchard Beach—if successful we hope to use higher percentages of biodiesel in warmer months. In addition, in partnership with the Department of Transportation, new Compressed Natural Gas (CNG) fueling sites will soon be operational at our Central Park and Flushing Meadows Corona Park garages.

Ten Years Ago



Volume XXV, Number 5359

Tuesday, Mar 01, 2011

Parks Honored For Use Of Biodiesel Technologies

On February 8, Parks joined Disney and the Ford Motor Company in receiving national “Eye on Biodiesel” awards from the National Biodiesel Board. The National Biodiesel Board is the main non-profit industry support group for biofuel development and production in the United States. Parks, Sanitation, and New York City have been on the forefront in implementing biodiesel to reduce carbon dioxide and other harmful emissions, as well as transition to domestic and renewable energy. The Federal EPA estimates that 100 percent biodiesel achieves 57 percent reduction in carbon dioxide production as compared to conventional fuels.



Assistant Commissioner Kerman accepts award on behalf of Parks from the National Biodiesel Board

All 850 diesel fleet and equipment units at Parks currently use biodiesel. B20, 20 percent biodiesel, is our standard fuel. Parks has also piloted B50, 50 percent biodiesel, successfully

at Orchard Beach in the Bronx and also for our entire Staten Island diesel fleet. This year, Parks began to change its core pickup truck to a diesel Ford pickup. We introduced our first fifty units this winter, just in time for them to hit the streets and parks plowing snow. Coincidentally, Ford also received national recognition for its development of this new truck which was designed to use biodiesel B20.

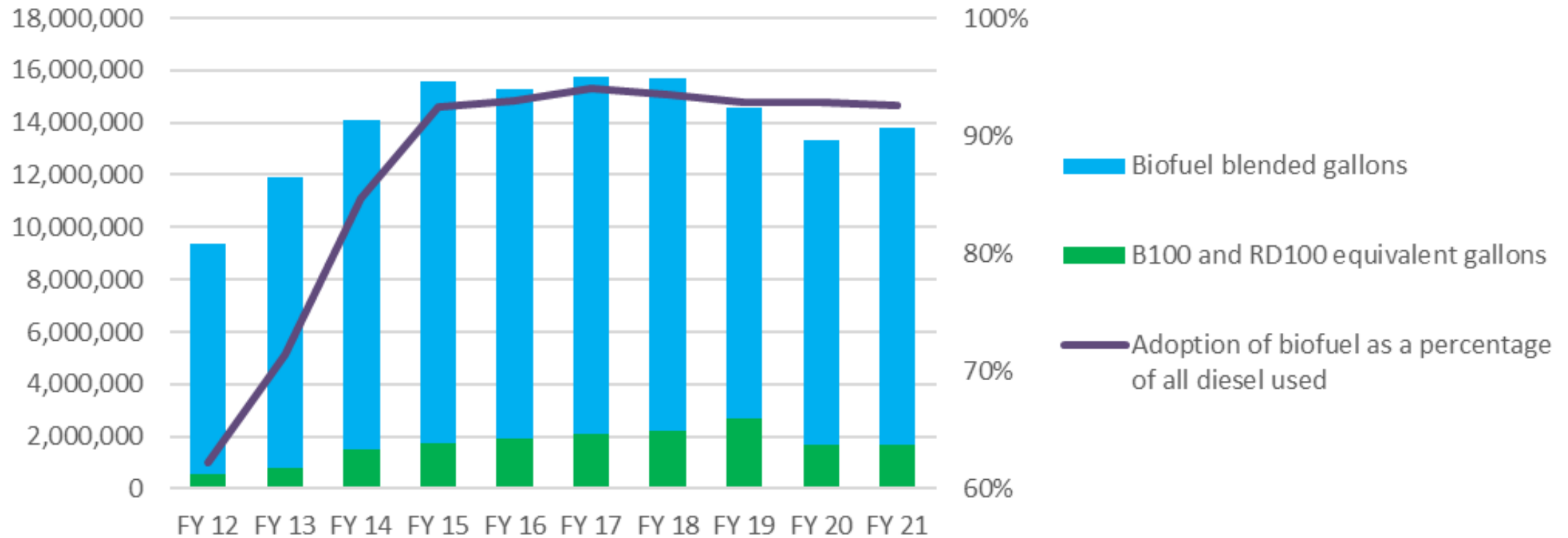
Parks is also leading in use of bioheat, biodiesel used for heating buildings. All of Parks’ 153 buildings and 182 heating oil tanks have burned biodiesel, B5 to B20, for the last three winters including this very cold winter. The City recently passed a Local Law that will require biodiesel, B2, by 2012 for all public and private buildings. Parks is already well ahead in implementing this cleaner and greener fuel.

Total Use of Biodiesel Blends

NYC Government Use of Biodiesel Blends			
FY	Blended Gallons for		Total
	Government Buildings	Government Fleet	
13	31,736,530	11,925,594	43,662,124
14	35,457,127	14,080,534	49,537,661
15	35,554,585	15,597,826	51,152,411
16	22,669,030	15,281,204	37,950,234
17	23,792,071	15,780,318	39,572,389
18	27,412,541	15,698,806	43,111,347
19	25,955,047	14,596,581	40,551,628
20	17,979,474	13,305,898	31,285,372
21	<i>Waiting final data</i>	13,792,271	13,792,271
Total	220,556,405	130,059,032	350,615,437
Prepared by DCAS Fleet, 7/27/21			

Biodiesel in Fleet

NYC Fleet: Increase in Biofuels Use
Percent Adoption, Blended Gallons Used, B100 Equivalent



Biodiesel in Fleet and Emergency Services

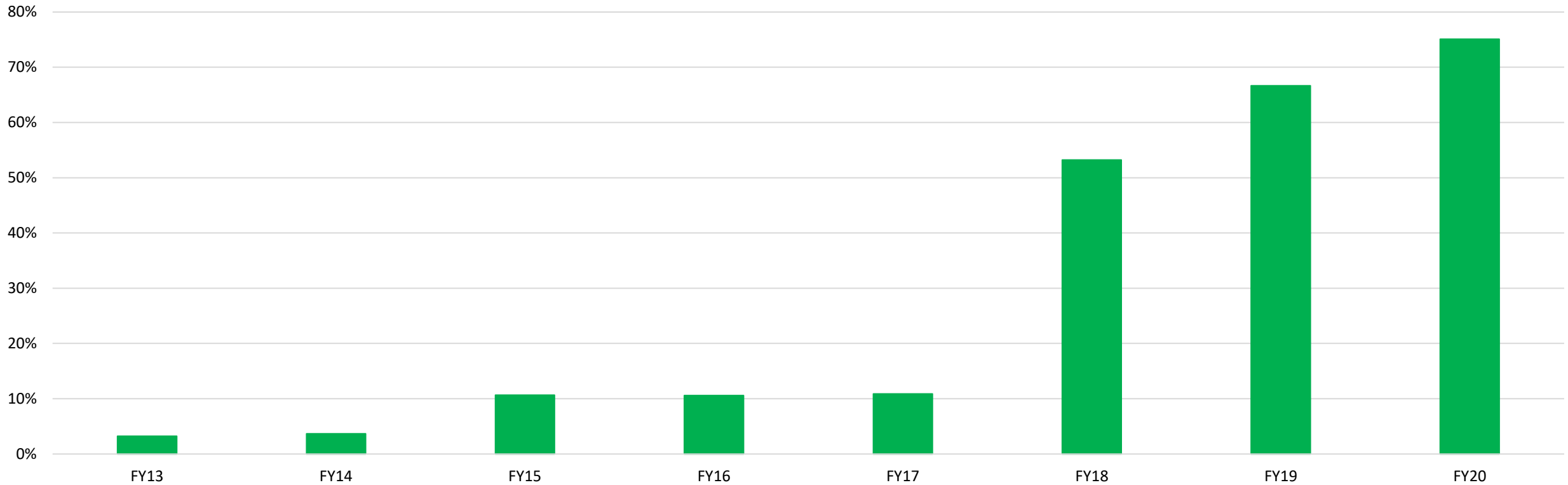
FY12

Agency	#2 ULSD	#1 ULSD B5	#2 ULSD B5	#2 ULSD B20	Total Diesel	Total Biodiesel	% Biodiesel
Correction	246,326	0	47,857	0	294,183	47,857	16%
Environmental Protection	88,209	0	214,463	0	302,672	214,463	71%
Fire	3,228,918	0	0	0	3,228,918	0	0%
Parks	55,739	0	123,054	417,133	595,926	540,187	91%
Police	357,319	0	0	0	357,319	0	0%
Sanitation	639,556	1,975,613	5,983,716	146,122	8,745,007	8,105,451	93%
Transportation	1,076,716	0	466,634	0	1,543,350	466,634	30%
Citywide	5,692,783	1,975,613	6,835,724	563,255	15,067,375	9,374,592	62%

FY21								
Agency	#2 ULSD	#2 ULSD B5	#2 ULSD B10	#1 ULSD B20	#2 ULSD B20	Total Diesel	Total Biofuel	% Biofuel
Correction	9,994	90,392	0	0	123,156	223,542	213,548	96%
Environmental Protection	20,675	125,823	0	0	207,498	353,996	333,321	94%
Fire	643,976	2,102,567	0	0	31,123	2,777,666	2,133,690	77%
Parks	22,846	261,359	0	0	421,734	705,939	683,093	97%
Police	79,506	50,359	384,555	2,991	0	517,411	437,905	85%
Sanitation	2,050	4,051,716	0	8,000	4,603,194	8,664,960	8,662,910	100%
Transportation	334,699	354,594	0	0	973,210	1,662,503	1,327,804	80%
Citywide	1,113,746	7,036,810	384,555	10,991	6,359,915	14,906,017	13,792,271	93%

NYC Buildings Bioheat B10 Initiative

NYC Fleet: Bioheat
B10 Initiative, NYC Government Buildings
Percent of D2 Fuel Blended with B10



NYC Schools Bioheat Initiatives

NYC Government Heating Oil Usage, FY20



Agency	#2 B5 Fuel Oil	#4 B5 Fuel Oil	#2 B10 Fuel Oil	#2 B20 Fuel Oil	Total	Percent of Total
Administration for Children's Services	823	0	0	0	823	0.00%
Correction	24,207	0	0	0	24,207	0.12%
DCAS	3,094	0	85,285	0	88,379	0.43%
Education	1,214,026	11,018,508	5,572,817	0	17,805,350	87.47%
Environmental Protection	18,760	0	10,703	0	29,463	0.14%
Fire	183,475	0	0	0	183,475	0.90%
Homeless Services	11,666	0	458,445	0	470,111	2.31%
Human Resources Administration	44,101	14,856	18,034	0	76,991	0.38%
Parks & Recreation	203,333	0	282,834	1,403	487,570	2.40%
Police	356,845	0	25,016	0	381,861	1.88%
Sanitation	217,902	0	585,728	0	803,629	3.95%
Transportation	3,017	0	0	0	3,017	0.01%
Citywide	2,281,249	11,033,364	7,038,860	1,403	20,354,876	100.00%

B50 Partnership on Staten Island

STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

In the matter of the Pilot Program for the testing of Biodiesel under of Article 17 of the New York State Environmental Conservation Law ("ECL") and Title 6 of the Official Compilation of Codes, Rules and Regulations ("6 NYCRR" and "17 NYCRR") of the State of New York

STIPULATION
CO2-20200430-138

-by-

The City of New York

WHEREAS:

1. The New York State Department of Environmental Conservation (the "Department") is an agency of the State of New York ("State"), which, pursuant to Titles 3 and 10 of Article 17 of the Environmental Conservation Law ("ECL"), is authorized to regulate the storage and handling of petroleum in the State of New York.
2. The City of New York ("the City") has been using biodiesel fuel in the city's fleet vehicles since 2005, and currently uses biodiesel in blends of 5 to 20 percent at City agencies.
3. The City seeks Department approval to complete a Pilot Program to study the storage and use of biodiesel fuel, namely B50 biodiesel fuel, for the City's fleet vehicles ("Pilot Program").



JOSEPH M. JARDIN
Chief of Fire Prevention
Bureau of Fire Prevention

July 22, 2021

Record ID: TBD

Paris Apollon, Chief of Operations
NYC Department of Parks & Recreation
10 Randalls Island
New York, NY 10035

Re: **Variance Application – PILOT PROGRAM**
Dispensing and storage of biodiesel motor fuel (B50)
NYC Dept. of Parks & Recreation – Clove Lakes Garage
Location: 21 Slosson Avenue, Staten Island

Dear Chief Apollon:

The Technology Management Unit is in receipt of a variance application submitted by the NYC Department of Parks & Recreation (DP&R) relative to a request to allow for a **pilot program** for the storage and dispensing of biodiesel motor fuel, up to and including **B50**, at DP&R Clove Lakes Garage. The facility location is 21 Slosson Avenue, Staten Island. DCAS has requested that the subject B50 pilot program be allowed to run through this summer and **conclude on October 31, 2021**.

Biotires



Bill de Blasio, Mayor
Lisette Camilo, Commissioner
Keith T. Kerman, Deputy Commissioner
and Chief Fleet Officer

NYC Fleet Newsletter

August 6, 2020 - Issue 315

NYC Fleet Implements Biotire Project

By: Keith T. Kerman

In the last few newsletters, we've focused on fleet sustainability, discussing our efforts to reduce the volume of liquid fuel we pour into gas tanks each year. The manufacture and operation of vehicles also greatly impacts sustainability.

Did you know that it takes approximately seven gallons of fuel to produce a single vehicle tire? In the United States alone, there were 331 million tires sold last year, adding to our fuel use and emissions.

In addition to the fuel used to produce a vehicle tire, the performance of a tire can impact fuel economy by reducing road friction and resistance.



In the last two years, NYC Fleet has implemented a project to test the effectiveness, longevity, and performance of tires made substantially of soybean oil, an extension of our 15 years of experience with soybean-based biofuel. As per the supplier Goodyear, these Assurance Weather Ready Tires reduce the use of fossil fuel by 60% and offer the promise of increased life and road performance.

Fleet has procured 1,000 biotires at six agencies. The investment of nearly \$90,000 was funded through existing maintenance

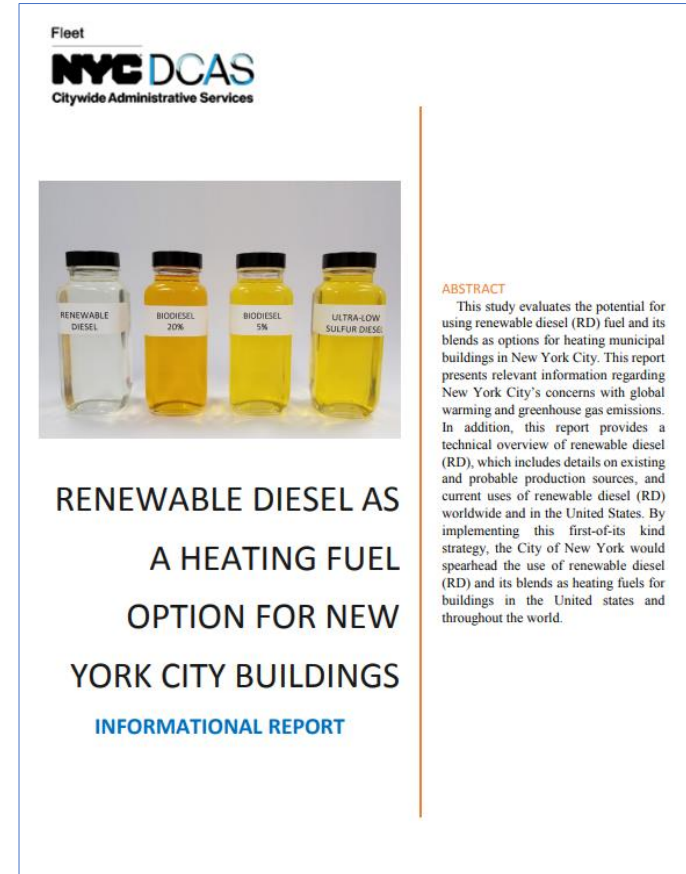
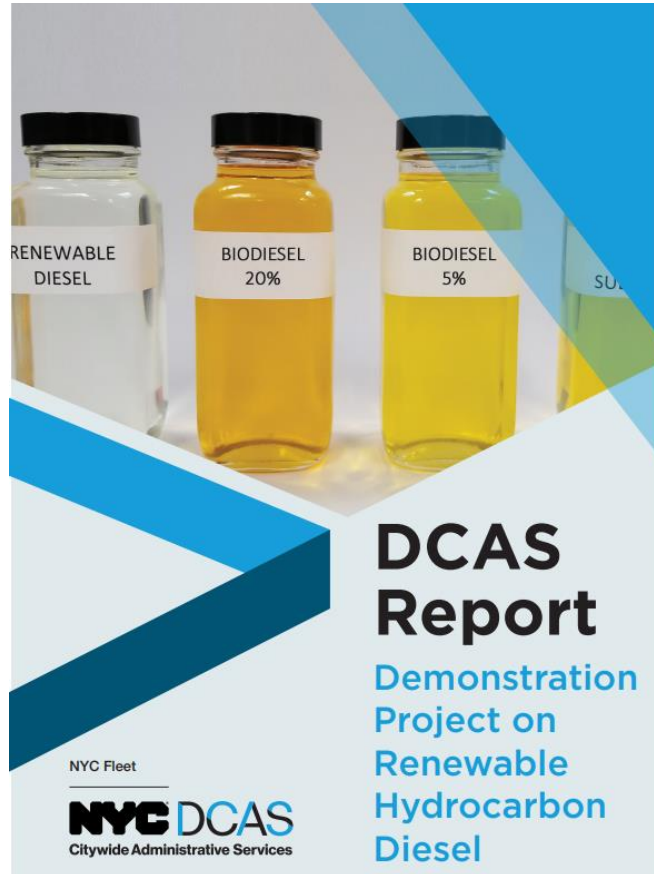
funds by replacing traditional petroleum-based tires with the biotires on a normal replacement schedule.

NYC Fleet: Soy Tire Initiative

Agency	Tires
NYPD	1,074
Transportation	142
Correction	51
Parks	41
Total	1,308

Prepared by DCAS, through July 2021

Renewable Diesel Public Reports



[Renewable-Diesel-Report-2019.pdf \(nyc.gov\)](#)

[RENEWABLE DIESEL AS A HEATING FUEL option for NEW YORK CITY \(nyc.gov\)](#)

Renewable Diesel Contracting

NYC City Record Select Language | 311 | Search all NYC.gov websites

[Home](#) [Sections](#) [User's Guide](#) [FAQ](#) [Contact Us](#) [Print Edition](#) [Log In](#) [Sign Up](#)

NYC Citywide Administrative Services | The City Record Online

Notice Details

TITLE: Correction: HYDROGENATION-DERIVED RENEWABLE DIESEL – (HDRD) FUEL

Section	Status
Procurement	Archived
Agency Name	Category
Citywide Administrative Services (DCAS)	Goods
Agency Division	Selection Method
Administration	Negotiated Acquisition
Request Address	Publication Date
1 Centre Street, 18th Floor South, New York, NY 10007	10/22/2020

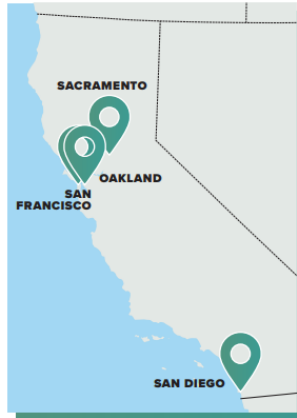
Clean Fuels NY Coalition Case Study, LCFS



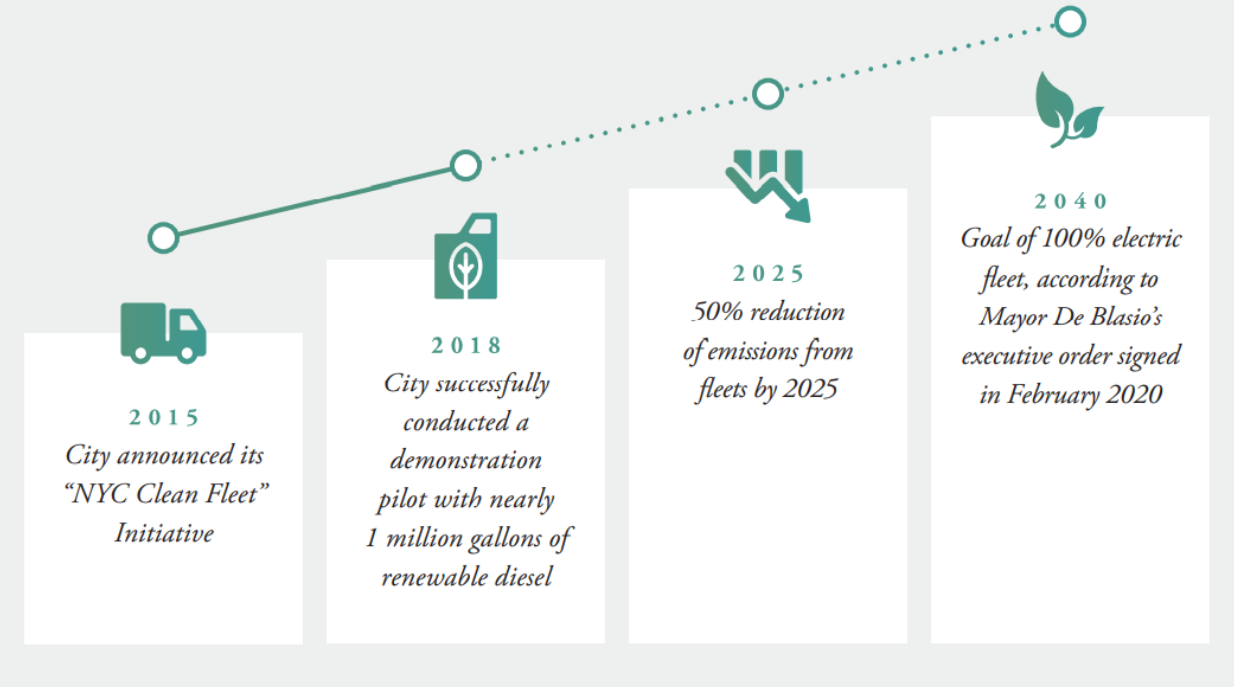
CASE STUDY

RENEWABLE DIESEL IN CALIFORNIA

Many cities and private companies have seen the importance and opportunity of replacing fossil diesel fuels with renewable diesel, a next stage biofuel derived from waste cooking oils, animal fat and excess soybean oils. Critically, renewable diesel can be used by a traditional engine and can immediately replace fossil diesel without investing in new or retrofit equipment. **San Francisco, Oakland, Sacramento, and San Diego have successfully switched to entirely renewable diesel, and UPS, Google and Boeing have also begun to phase in RD in their fleets.**

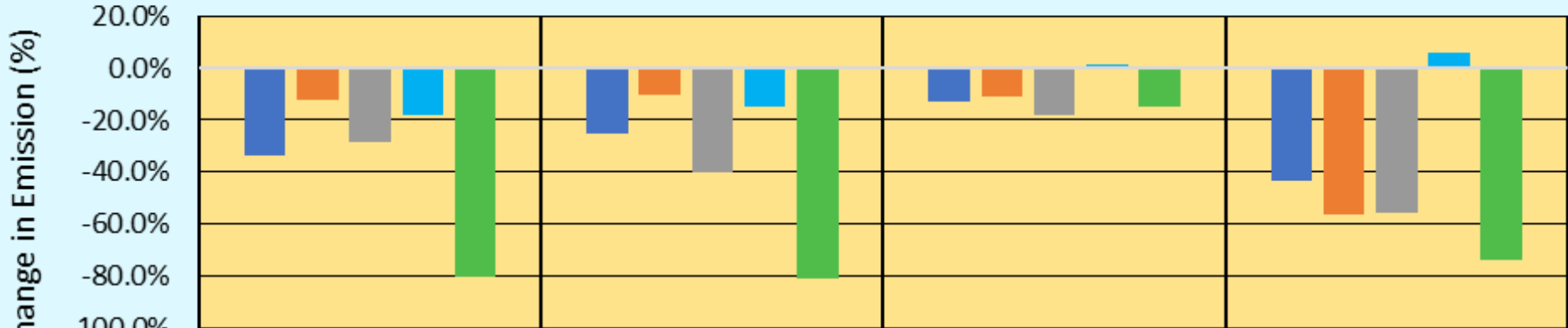


DRIVING THE INITIATIVE FORWARD



Air Quality Emissions

Changes in Emissions of RD, B20, and B100 Relative to Fossil Diesel



	RD (3)	REG RD (5,6)	B20 (1,2)	B100 (1,2)
Carbon Monoxide	-33.4%	-25.0%	-12.60%	-43.20%
Hydrocarbons	-12.0%	-10.0%	-11.00%	-56.30%
Particulate Matter	-28.6%	-40.0%	-18.00%	-55.40%
Nitrogen Oxides	-18.1%	-15.0%	1.20%	5.80%
Greenhouse Gas	-80.0%	-81.0%	-14.80%	-74.00%

Electric, Biofuel, Efficiencies Working Together!



Electric, Biofuel, Efficiencies Working Together!

GREEN CAR REPORTS NEWS FIRST DRIVES ELECTRIC CARS HYBRIDS GUIDES

NYC mayor orders all municipal vehicles to be electric by 2040

STEPHEN EDELSTEIN FEBRUARY 12, 2020 20 COMMENTS View Gal

The New York City government has made another bold proclamation in favor of electric cars.

Mayor Bill de Blasio issued an [executive order](#) calling for all vehicles in the municipal fleet to be fully electric by 2040. That includes not only cars, but everything from ambulances and police cruisers to garbage trucks and ferries, according to a [press release](#) issued by the mayor's office.

NYC
Environmental
Protection



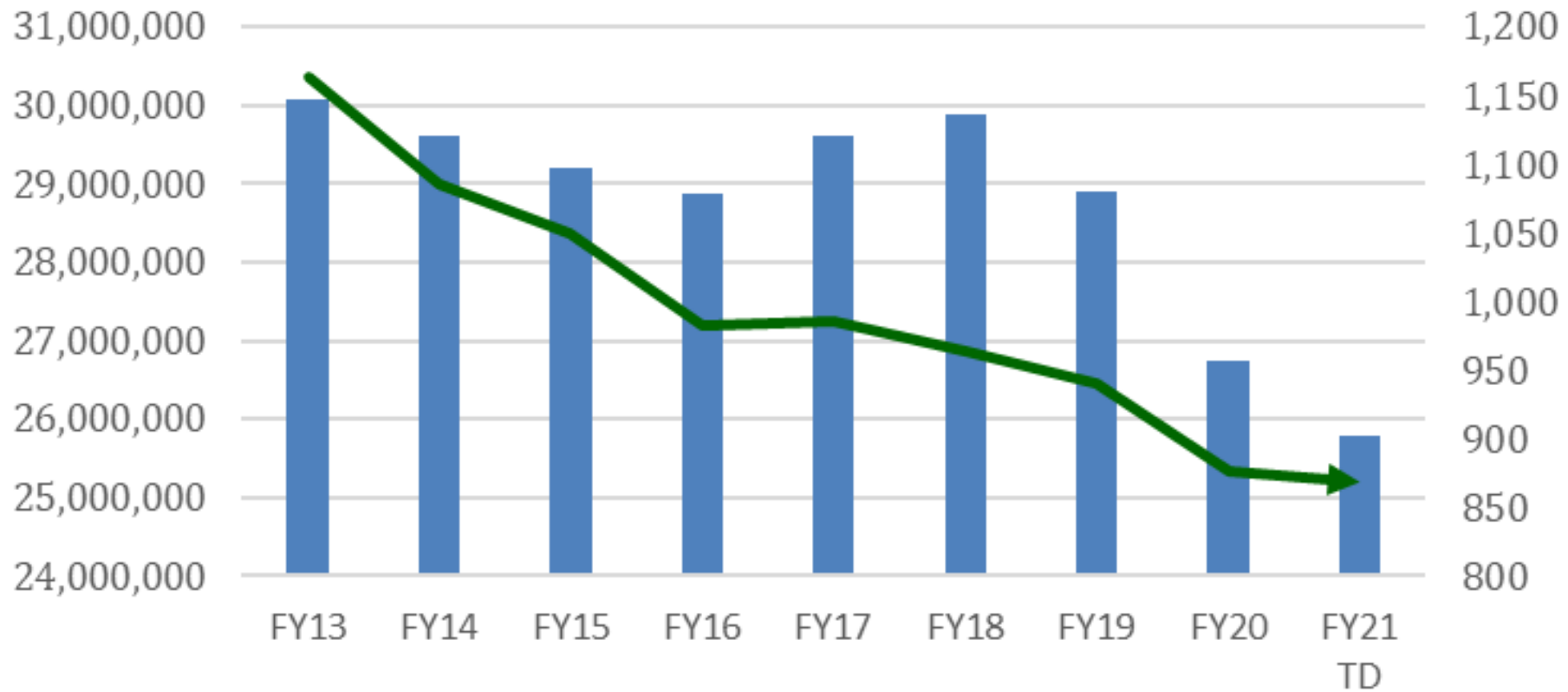
**BILLY
NEVER
IDLES
NEITHER
SHOULD YOU**



**IDLING IS POLLUTING
SHUT YOUR ENGINE OFF**

Fuel Efficiency

NYC Fleet: Fuel Use



■ Gallons → Gallons Used per Fleet Unit

COVID-19



Bill de Blasio, Mayor
Lisette Camilo, Commissioner
Keith T. Kerman, Deputy Commissioner
and Chief Fleet Officer

NYC Fleet Newsletter

March 15, 2021 - Issue 338

Fleet Staff Assisting at Vaccine Sites

By: Keith Kerman and Nate Koszer

It's now been one year since COVID-19 changed all of our lives. In our newsletters, we've reported on all the ways fleet staff citywide have assumed new roles to support the emergency response. We've done street-side fueling of ambulances, worked on procurement of medical supplies, helped distribute food and air conditioners, organized hazmat cleanings, and supported The Office of Chief Medical Examiner. We are now assisting in the most hopeful of all roles, serving at the City's Vaccine Hubs.

Since early February, five DCAS Fleet staff, so far, have been spending their weekdays and some weekends assisting New Yorkers who have appointments at City-run vaccine sites, known as hubs to the public and as PODs, Points Of Dispensing, to staff. Our DCAS staff have joined volunteers from DOHMH, other City agencies, the private sector, and medical professionals and EMTs operating the sites.



Volunteers perform various tasks depending on the site needs. While the actual vaccine injections are given by trained medical professionals, support staff assist with PPE and other supplies for the medical staff. Volunteers help recipients navigate the lines in the centers and ensure they have their appointments set for their second shots. Some volunteers assist disabled and non-English speaking vaccine recipients in accessing available accommodations, and City staff volunteers assist with general site coordination as needed.

City-run hubs are located in high schools across the five boroughs, utilizing gyms and cafeterias as makeshift clinics, teachers lounges as break rooms, and locker rooms as rest and observation centers to make sure vaccine recipients don't have an adverse reaction. Operations are all on the first floor to ensure accessibility. The use of the schools for this medical purpose was a large coordination project, with extensive scheduling needs, the need to minimize impacts to school educational programs, and the challenge of explaining this new and critical process to participants.

32nd Annual Fleet Show



NYC Parks

32nd ANNUAL EQUIPMENT & VEHICLE SHOW

Rescheduled Date:
Wednesday, September 22,
9am to 2pm
Rain Date: Friday, September 24

Flushing Meadows Corona Park,
Queens, by the Unisphere

NYC Fleet

NYC DCAS
Citywide Administrative Services

This show highlights vendors who support NYC's Clean Fleet and Vision Zero initiatives, as well as daily operations. We will have vendors offering a wide array of products to improve vehicle safety including cameras, truck side guards, systems to track and manage fleets, and systems to avoid or mitigate collisions. The show also highlights vehicles and equipment with alternative fuels and emissions reducing technologies, along with the latest in light and heavy-duty vehicles, trucks, horticultural equipment, tools, fleet services, and more.

Free to all exhibitors and attendees.

RSVP forms will be available soon at
<https://www1.nyc.gov/site/dcas/agencies/fleet-news.page>



Accessibility Questions?
Contact DCAS Accessibility at 212-386-0256, or
accessibility@dcas.nyc.gov by
Wednesday, September 15.

#ONENYC

**VISION
ZERO**
nyc.gov/visionzero

Contact

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

Keith Kerman
Chief Fleet Officer
New York City
Deputy Commissioner,
Department of Citywide Administrative Services

kkerman@dcas.nyc.gov

DCAS

THANK YOU