

# Update for the Clean Fuels Alliance NYC Fleet

**Keith T. Kerman**  
**NYC Chief Fleet Officer**  
**Deputy Commissioner, DCAS**  
**December 13, 2023**

# Biodiesel Beginnings in NYC



Volume XX, Number 4362

Tuesday, May 24, 2005

## CLEANING UP AT THE ANNUAL FLEET SHOW

Last Wednesday, May 18, Parks & Recreation held its 17<sup>th</sup> 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.

# Renewable Diesel Announcement, Nov. 30, 23

## Press Release

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### Mayor Adams Unveils Plan To Make NYC First East Coast City To Transition City's Heavy-duty Fleet Vehicles To Renewable Fuel

November 30, 2023

*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*

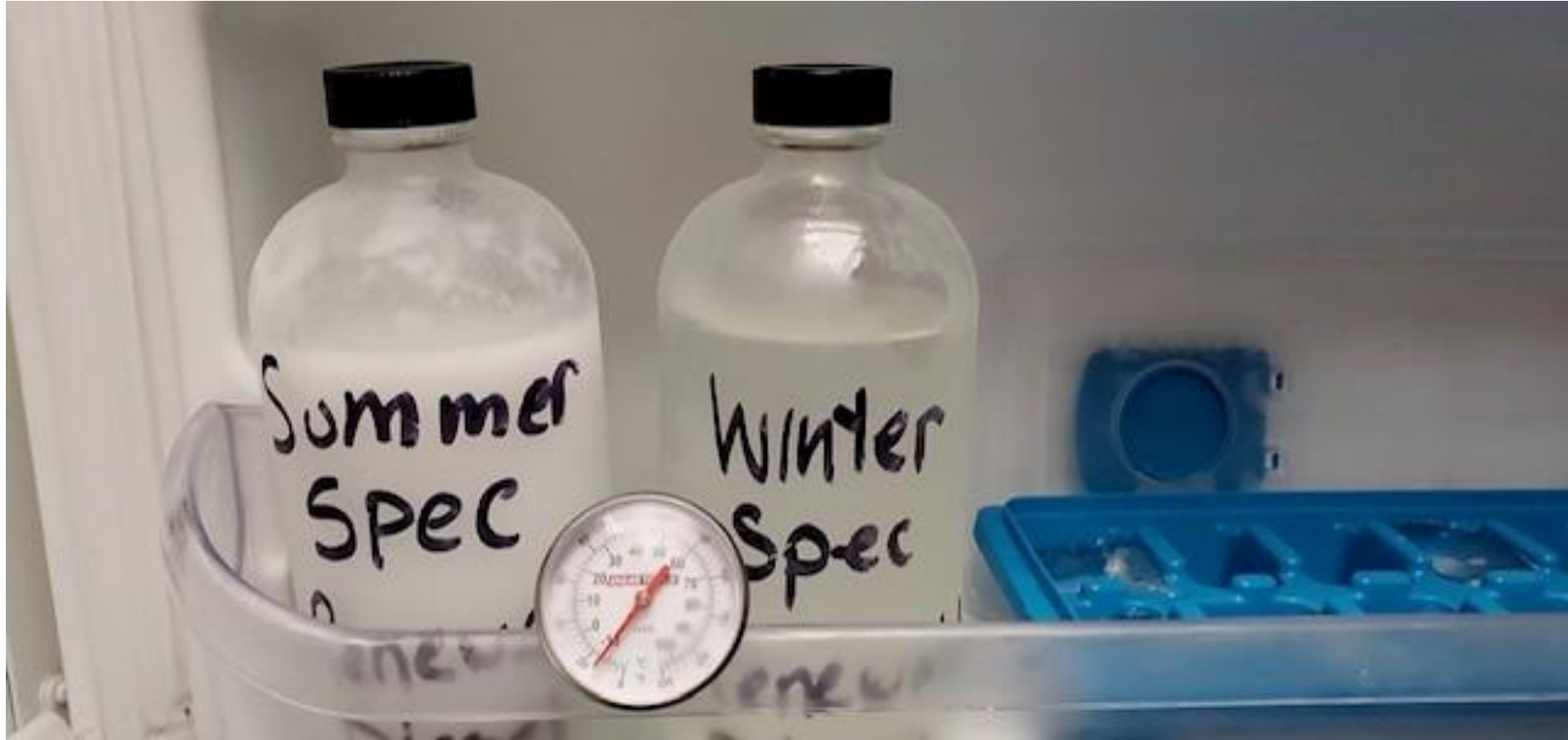
**NEW YORK** - New York City Mayor Eric Adams and New York City Department of Citywide Administrative Services (DCAS) Commissioner Dawn M. Pinnock today outlined a plan that will make New York City the first city on the East Coast to transition all heavy-duty vehicles in the city's fleet from fossil 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 Fuel Deliveries

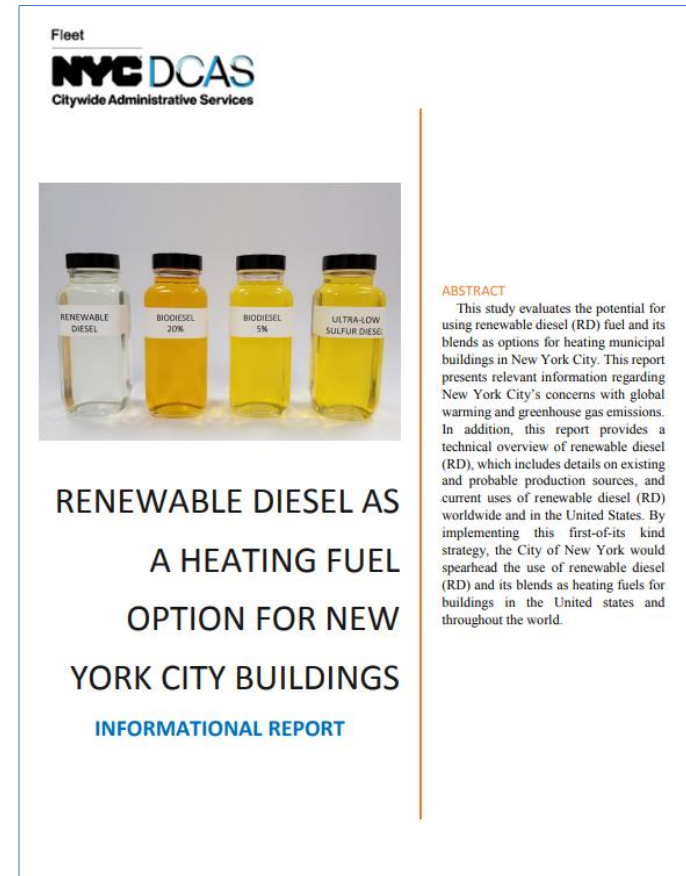
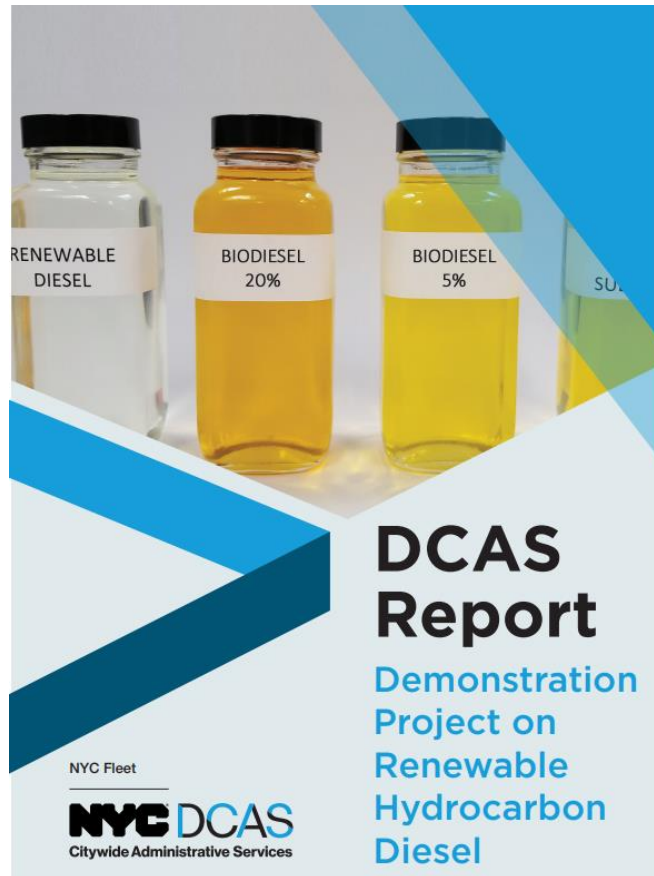


# First Major United States User of Artic Blend

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# Renewable Diesel Public Reports



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

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

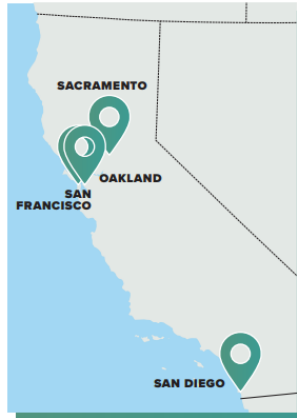
# Clean Fuels NY Coalition Case Study, LCFS



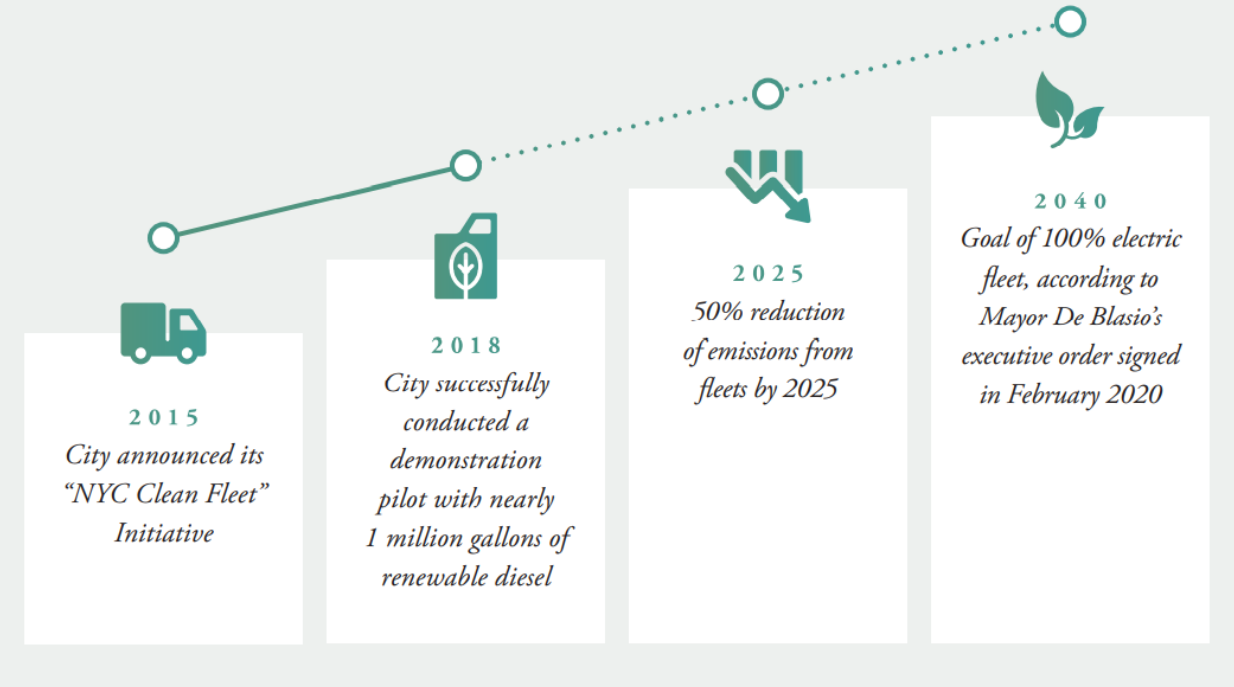
## CASE STUDY

### 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



# 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

U.S. Department of Transportation  
Volpe Center



# 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

# NYC Clean Fleet Plan

## 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)



# NY Law and Biodiesel



**Mayor Bloomberg Signs Legislation Promoting Fuel Efficiency, Cleaner Fuel and Upgraded Engines in the City's Fleet of Vehicles**

September 4, 2013

**New York State Enacts Low-Carbon Heating Fuel Law**



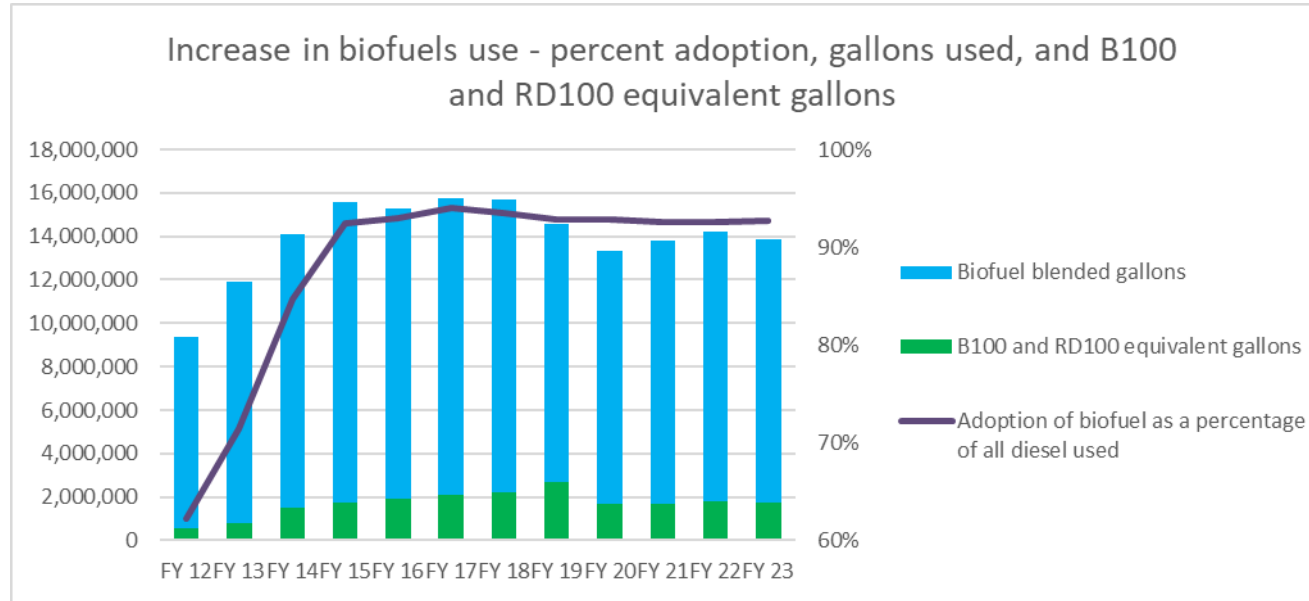
*Governor Hochul signs bill requiring heating oil to contain 20% biodiesel*

# Total Use of Biodiesel Blends

NYC Government Use of Biodiesel Blends			
FY	Blended Gallons for Government	Blended Gallons for Government	Total
	Buildings	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	20,354,876	13,305,898	33,660,774
21	23,145,725	13,792,271	36,937,996
22	25,699,426	14,219,288	39,918,714
23	21,256,343	13,848,141	35,104,484
<b>Total</b>	<b>293,033,300</b>	<b>158,126,461</b>	<b>451,159,761</b>

Total fuel use determined by winter temperatures; Prepared by DCAS Fleet

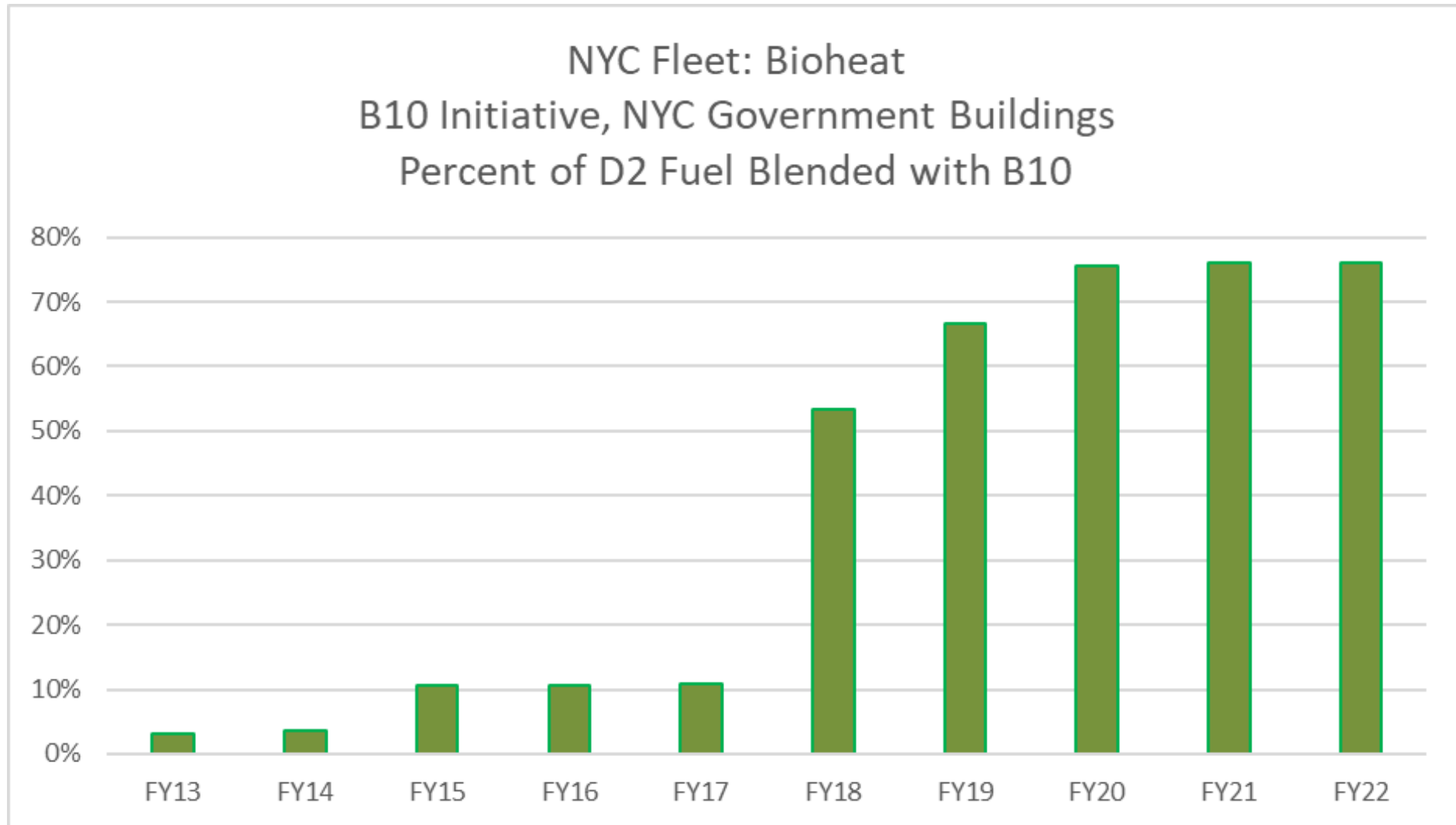
# Biodiesel in Fleet



## FY23

Agency	#2 ULSD	#2 ULSD B5	#2 ULSD B10	#1 ULSD B20	#2 ULSD B20	#2 ULSD B50	Total Diesel	Total Biofuel	% Biofuel
Correction	3,400	141,081	0	0	137,283	0	281,764	278,364	99%
Environmental Protection	0	184,188	0	0	203,848	0	388,036	388,036	100%
Fire	606,210	2,284,833	0	0	33,940	0	2,924,983	2,318,773	79%
Parks	0	230,278	0	0	373,401	36,808	640,487	640,487	100%
Police	0	91,454	355,740	0	0	0	447,194	447,194	100%
Sanitation	3,126	3,312,996	0	3,999	5,251,166	0	8,571,287	8,568,161	100%
Transportation	474,397	348,899	0	0	858,227	0	1,681,523	1,207,126	72%
<b>Citywide</b>	<b>1,087,133</b>	<b>6,593,729</b>	<b>355,740</b>	<b>3,999</b>	<b>6,857,865</b>	<b>36,808</b>	<b>14,935,274</b>	<b>13,848,141</b>	<b>93%</b>

# NYC Buildings Bioheat B10 Initiative



# B50 Partnership, Staten Island Parks

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**.

**NYC DCAS**  
Citywide Administrative Services

*NYC Fleet Newsletter*

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

October 8, 2021 - Issue 365

## DCAS Pilots Biodiesel 50 Percent (B50) With Parks, NBB

By: Keith T. Kerman

NYC government operations are major adopters of biofuels. Since FY13, NYC has used over 376 million gallons of biodiesel blended fuel for its fleet operations and heating oil. Both initiatives began at NYC Parks and are now codified in Local Law.

Throughout this period, the City has used blends of 5%, 10%, or 20% of biodiesel. The remaining fuel has been ultra-low sulfur diesel (ULSD). On September 2, the City received its first delivery of 1,610 gallons of B50, (50% biodiesel), at the Cloves Lake Park fueling site at NYC Parks. A DOT van was the first to use the B50 fuel, as part of our shared services for fueling.



This effort is part of a 26,000 gallon pilot that DCAS is implementing in partnership with NYC Parks, the National Biodiesel Board and United Soybean Board which funded enhancements to the Parks' fuel site to enable B50 use. This was also the culmination of a five-year effort to return to fueling B50 at Parks.

# 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

### Biotire Purchases since 2018

NYPD	1738
DOT	359
DSNY	83
Parks	62
DOC	52
FDNY	36
Total	2330



# Soy Road Demo, NYC DOT

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# 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