

Update on Biofuels Adoption

NYC Fleet

Keith T. Kerman
NYC Chief Fleet Officer
Deputy Commissioner, DCAS
December 14, 2022

Certification Training with Lung Association



NYC Fleet Newsletter

Dawn M. Pinnock, Commissioner
Keith T. Kerman, Deputy Commissioner
and Chief Fleet Officer

December 2, 2022 - Issue 411

DCAS Partners With American Lung Association on Biofuels Training

By: Keith Kerman

In 2005, the City's fleet began the use of biodiesel fuel in City trucks at the NYC Department of Parks and Recreation. Since then, biodiesel use has been adopted for all fleet units and is also used in all heating oil systems in NYC, public and private. NYC has passed local laws requiring biodiesel use in City fleet units and government and private buildings.



NYC Department of Parks and Recreation garbage truck powered by biodiesel and a hybrid electric drive train.

Most recently, [New York state mandated biodiesel in heating oil statewide](#), starting at 5% of fuel use in 2002 and going to 20% in 2030.

Since fiscal year 2013, NYC government operations have used 416 million gallons of fuel blended with biodiesel. In 2018, DCAS implemented a nearly 1 million gallon demonstration project for renewable diesel (RD) which can be used up to 100%, replacing fossil diesel completely. DCAS is working on a long-term renewable diesel contract now. Biodiesel and renewable diesel can serve as cleaner and more sustainable fuel alternatives while we work to electrify our fleet and buildings long term. As DCAS reviewed in its [first Clean Fleet Transition Plan](#), many segments of the trucking and off-road fleets will likely rely on diesel fuel for an extended period in the future. DCAS is also piloting biotires, as a way to reduce tire emissions.



American Lung Association Biobased Academy

Hereby confers upon

Keith Kerman

Biobased Certified Fleet Professional

*In recognition of successful completion
Of the prescribed course of study and examination
Of the Biobased Certified Fleet Professional Program*


Bailey S. Arnold
Director, Clean Air Initiatives
American Lung Association

**BIOBASED
CERTIFIED**
BIOBASED CERTIFIED FLEET PROFESSIONAL

2022

American Lung Association.
Biobased Academy

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 Adoption

[HERE](#)



2021 Clean Fleet Update
September 2021



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:

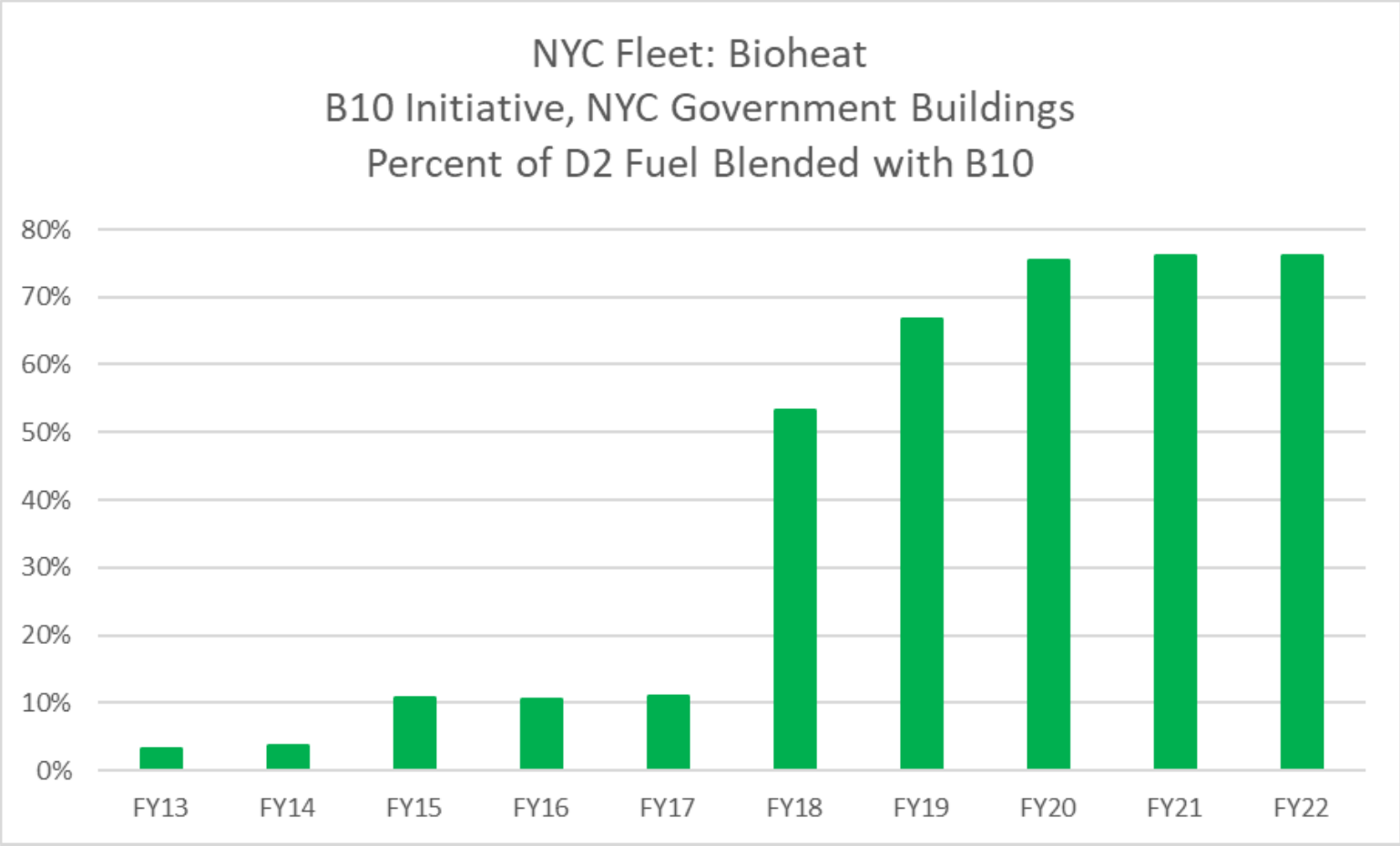
“Feedstock” means soybean oil, oil from annual covercrops, algal oil, biogenic waste oils,

Total Use of Biodiesel Blends

NYC Government Use of Biodiesel Blends			
FY	Blended Gallons for Government Buildings (1)	Blended Gallons for Government Fleet	Total
	13	31,736,530	
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
Total	271,776,958	144,278,320	416,055,278

(1) Total fuel use determined by winter temperatures; Prepared by DCAS Fleet

NYC Buildings Bioheat B10 Initiative



B10 Heating Oil Initiative			
Fiscal Year	Total D2	B10/B20	Percent
FY22	12,971,518	9,809,703	76%
FY21	11,107,998	8,455,586	76%
FY20	9,321,511	7,040,263	76%
FY19	11,697,178	7,796,793	67%
FY18	12,853,659	6,841,902	53%
FY17	9,725,733	1,058,160	11%
FY16	9,368,529	993,248	11%
FY15	16,158,605	1,721,645	11%
FY14	15,335,152	565,036	4%
FY13	15,166,406	489,728	3%

NYC Schools Bioheat Initiatives



Heating Oil Usage, FY22

Agency	#2 B5 Fuel Oil	#4 B5 Fuel Oil	#2 B10 Fuel Oil	#2 B20 Fuel Oil	Total
Correction	17,989	0	0	0	17,989
DCAS	11,501	0	113,193	0	124,694
Education	2,088,465	12,711,018	8,355,668	5,000	23,160,151
Environmental Protection	15,457	0	9,404	2,344	27,205
Fire	178,863	0	0	0	178,863
Homeless Services	12,353	0	437,918	0	450,271
Human Resources Administration	70,142	16,890	23,631	0	110,662
Parks & Recreation	261,299	0	259,661	3,670	524,629
Police	406,195	0	28,459	0	434,655
Sanitation	97,145	0	562,655	0	659,800
Transportation	2,407	0	8,100	0	10,507
Citywide	3,161,815	12,727,908	9,798,690	11,013	25,699,426

as of 6/30/22

B50 Partnership with Staten Island Parks



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

NYC Fleet Newsletter

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.



NYC Government Use of Biodiesel Blends			
FY	Blended Gallons for		Total
	Government Buildings	Blended Gallons for 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	20,354,876	13,305,898	33,660,774
21	23,145,725	13,792,271	36,937,996
Total	246,077,532	130,059,032	376,136,564



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	1,373
Transportation	219
Correction	52
FDNY	16
Parks	61
Total	1,721

Prepared by DCAS, through June 14th 2022



Press Release: Pollution From Tyre Wear 1,000 Times Worse Than Exhaust Emissions

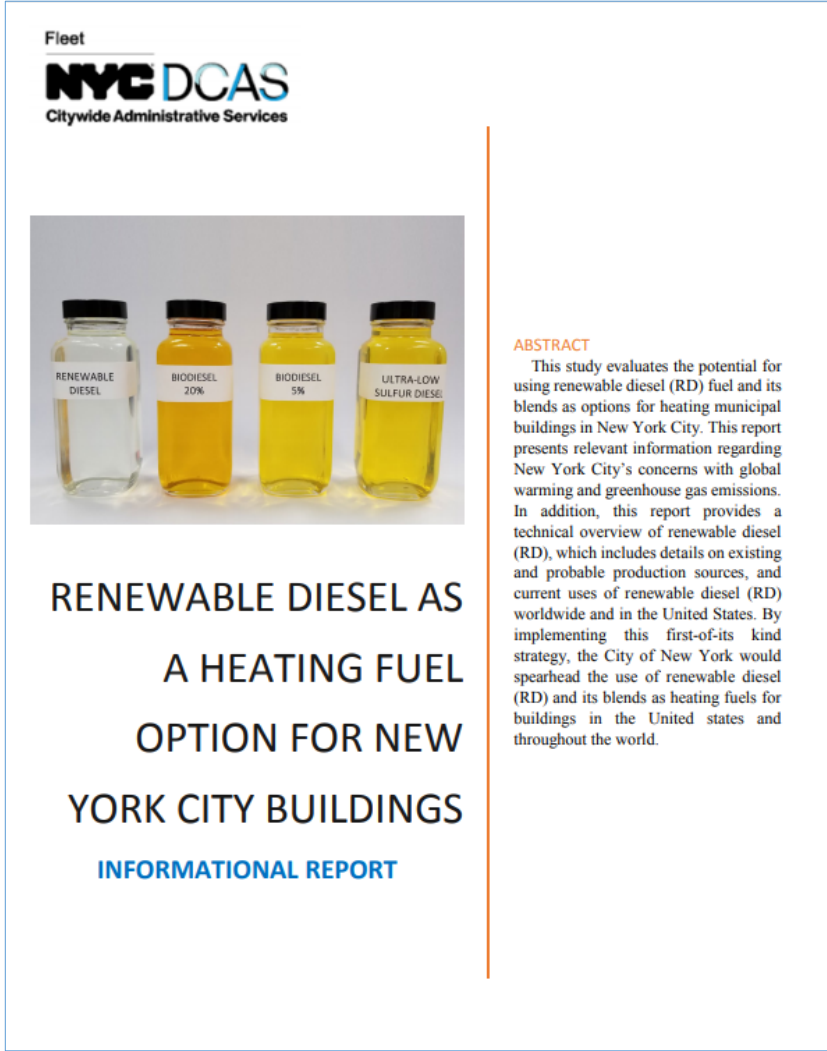
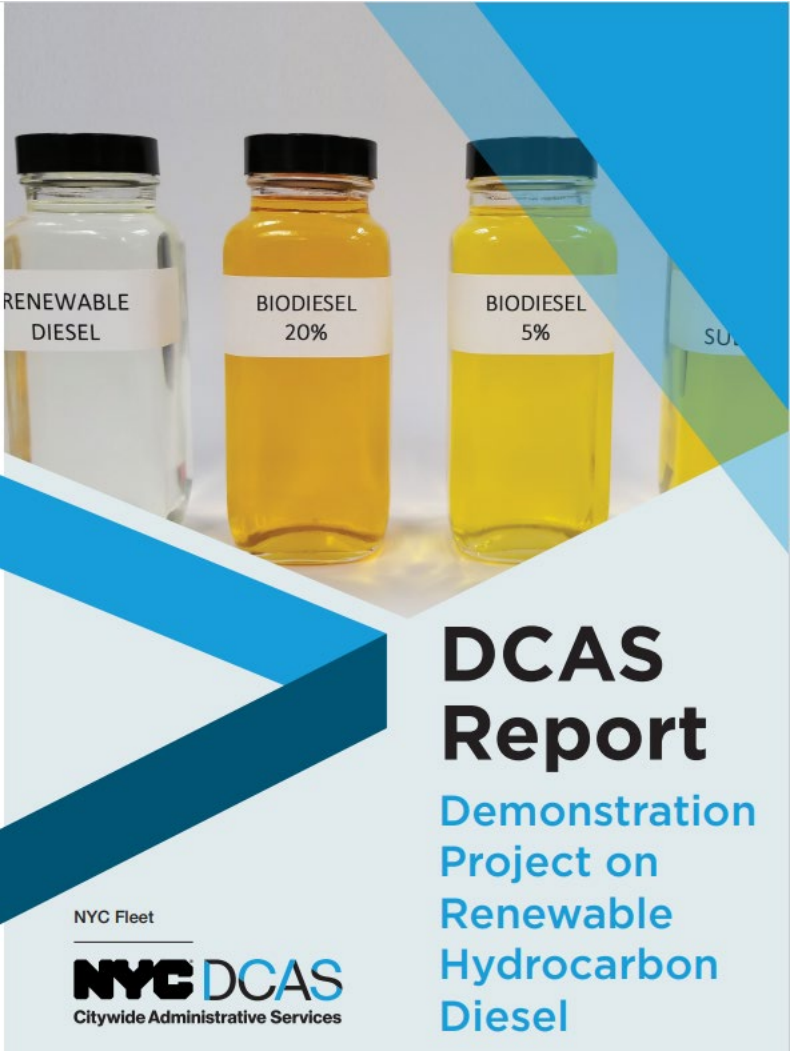
Newsletter



- Tight regulation of exhaust emissions by the EU has meant that new cars emit very little particle pollution
- But tyre wear pollution is unregulated and can be 1,000 times worse, finds independent real-world testing experts Emissions Analytics



Renewable Diesel Public Reports



Renewable Diesel Contracting

The screenshot shows a web page for NYC Citywide Administrative Services. The header includes navigation links: Home, Sections, User's Guide, FAQ, Contact Us, Print Edition, Log In, and Sign Up. The main content area features a search bar and a notice titled "Correction: HYDROGENATION-DERIVED RENEWABLE DIESEL - (HDRD) FUEL". The notice details are as follows:

Section	Procurement	Status	Current
Agency Name	Citywide Administrative Services (DCAS)	Category	Goods
Agency Division	Office of Citywide Procurement	Selection Method	Negotiated Acquisition
Request Address	DCAS	Publication Date	6/14/2022
Contact Information	ALVIN PETTWAY phone: (212) 386-0478 email: apettway@dcas.nyc.gov	Notice Type	Solicitation
		PIN - Due Date	PIN#85722N0003 - Due: 6/21/2022 10:30 AM

At the bottom right of the page, there is a watermark that reads "Activate Windows: Go to Settings to activate Windows".

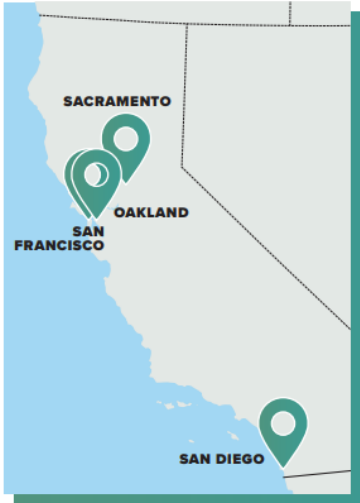
Clean Fuels NY Coalition Case Study, LCFS



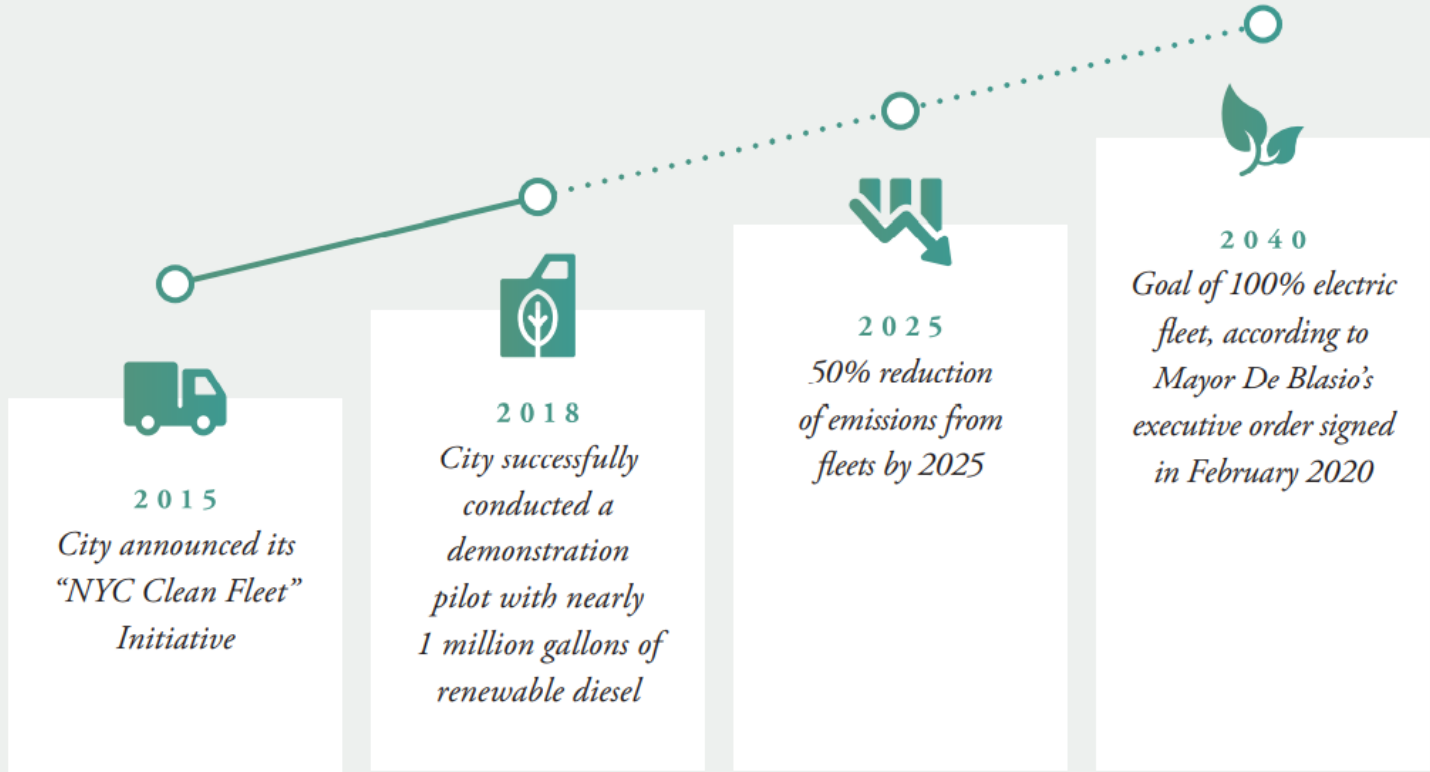
CASE STUDY

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



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