

Fleet



NYC Government Operations Biofuels Program Central Park, Arsenal

NYC Fleet

Keith Kerman

Deputy Commissioner, DCAS

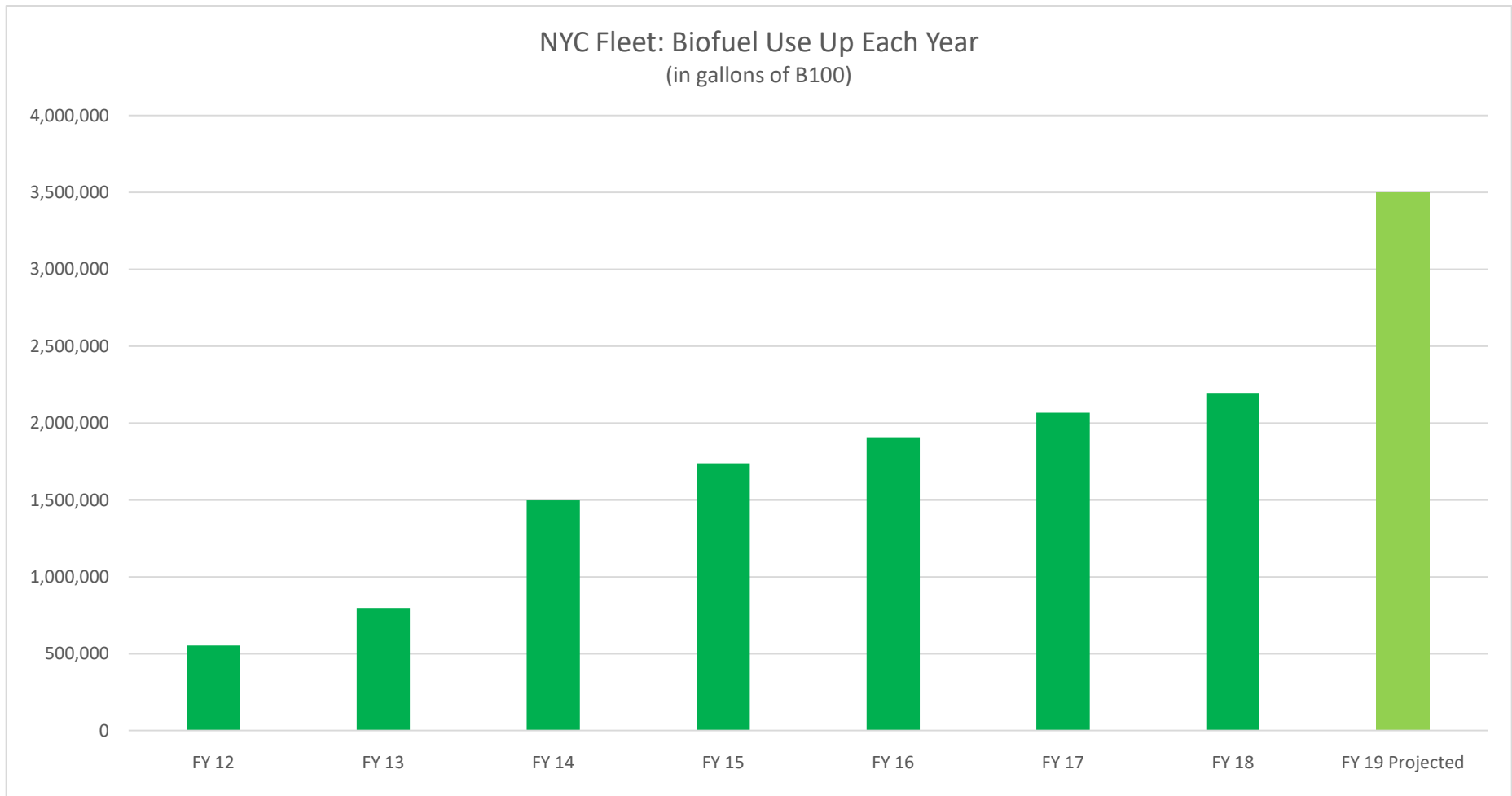
NYC Chief Fleet Officer

April 26, 2019

The beginning, NYC Parks

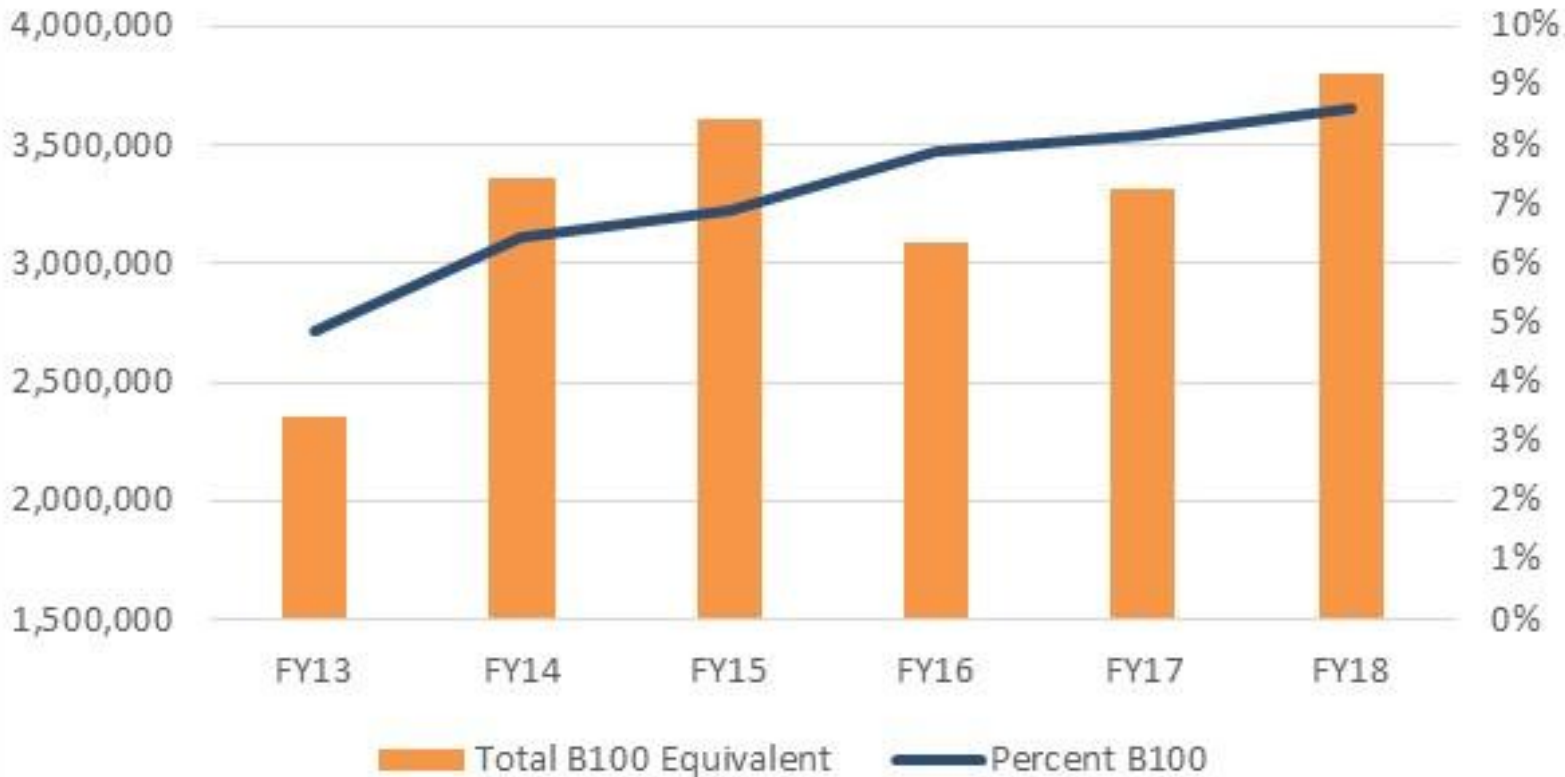


NYC Fleet: Biggest Biofuels Year Ever



Biodiesel in Government Operations

Biodiesel Use in NYC Fleet and Buildings



Biodiesel in Government Operations

NYC Government Use of Biodiesel Blends			
FY	Blended Gallons for Government Buildings	Blended Gallons for Government Fleet	Total
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	15,588,687	43,001,228
Total	176,621,884	88,254,163	264,876,047

Biofuels and Emergency Services

Fleet Biofuel Use by Agency, FY19 To Date									
Agency	#2 ULSD	#2 ULSD B5	#2 ULSD B10	#1 ULSD B20	#2 ULSD B20	Renewable Diesel	Total Diesel	Total Biofuel	% Biofuel
Correction	9,622	90,189	0	0	150,849	4,800	255,460	245,838	96%
Environmental Protection	779	121,706	0	0	91,320	39,553	253,358	252,579	100%
Fire	515,832	1,690,770	0	0	15,761	0	2,222,363	1,706,531	77%
Parks	12,078	185,715	0	0	114,161	161,647	473,601	461,523	97%
Police	38,542	37,474	327,430	5,800	0	39,301	448,547	410,005	91%
Sanitation	0	2,713,403	0	1,224,945	2,748,457	599,959	7,286,764	7,286,764	100%
Transportation	286,466	330,943	0	0	458,784	6,500	1,082,693	796,227	74%
Citywide	863,319	5,170,200	327,430	1,230,745	3,579,332	851,760	12,022,786	11,159,467	93%

Winter Biodiesel B20 Use, Fleet

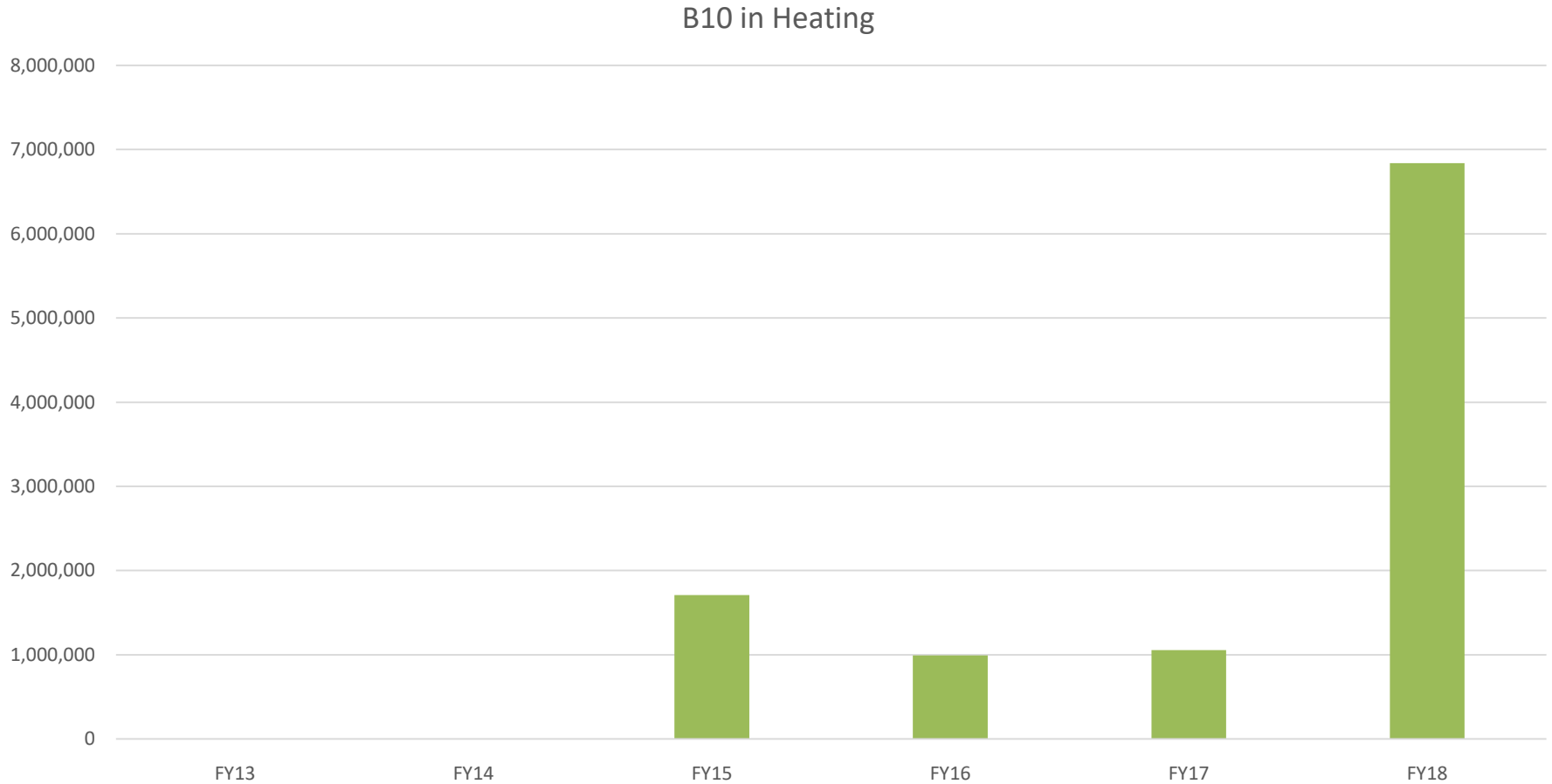
In-House Vehicle Biodiesel Use, Winter FY17-FY18

Agency	#2 ULSD	#2 ULSD B5	#2 ULSD B10	#1 ULSD B20	#2 ULSD B20	Total Diesel	Total Biodiesel	% Biodiesel
Correction	2,000	0	0	0	233,288	235,288	233,288	99%
Environmental Protection	28,606	218,932	0	0	29,769	277,307	248,701	90%
Fire	425,571	1,559,693	0	0	0	1,985,264	1,559,693	79%
Parks	0	366,827	0	16,715	0	383,542	383,542	100%
Police	52,048	26,775	310,392	0	2,618	391,833	339,785	87%
Sanitation	3,999	6,918,842	0	1,546,816	16,056	8,485,713	8,481,714	100%
Transportation	119,205	343,887	0	14,104	209,618	686,814	567,609	83%
Citywide	631,429	9,434,956	310,392	1,577,635	491,349	12,445,761	11,814,332	95%

FY18 Average #1B20 Price: \$2.56

FY18 Average #2B20 Price: \$2.48

Bioheat, B10 Initiative



Renewable Diesel, Fleet



Renewable Diesel, Fleet

For Immediate Release



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DCAS to Expand Use of 99% Petroleum-Free Renewable Diesel in City Vehicles

City Aims to Phase Out Use of Traditional Diesel Fuel

NEW YORK – The NYC Department of Citywide Administrative Services (DCAS) today announced that it will expand use of renewable diesel fuel, a 99% petroleum-free alternative to traditional diesel fuel. The fuel reduces CO2 emissions by 65% compared to the petroleum-based version. This move is part of the City's efforts to phase out its use of regular diesel.

The City plans to bid a long-term contract to purchase renewable diesel following a successful six-month demonstration period in which the City tested nearly one million gallons of renewable diesel in City fleet vehicles. Each year, City fleet units use up to 17 million gallons of diesel that could be displaced through this initiative.

"The climate crisis is real and it's urgent, and that is why the City of New York is leading the way on reducing carbon emissions," said **Lisette Camilo, Commissioner of the NYC Department of Citywide Administrative Services**. "Renewable diesel is 99% petroleum-free and helps keep fossil fuels in the ground and emissions out of our air."

Biotires

MEDIA | NEWS RELEASES

GOODYEAR USING SOYBEAN OIL-BASED RUBBER IN TIRES

AUGUST 29, 2017

AKRON, Ohio, August 29, 2017 – The Goodyear Tire & Rubber Company is harvesting some unique “seeds” of innovation as it introduces a new tire technology with support from the United Soybean Board (USB).

The first commercial use of a new soybean oil-based rubber compound is helping Goodyear enhance tire performance in dry, wet and winter conditions. A Goodyear team of scientists and engineers created a tread compound, or formulation, using soybean oil, which is naturally derived, cost-effective, carbon-neutral and renewable.

“Goodyear’s legacy of innovation drives us to continue to apply new technology solutions, developing superior performing tires that meet consumer demands,” said Eric Mizner, Goodyear’s director of global materials science.

By employing soybean oil in tires, Goodyear found a new way to help keep the rubber compound pliable in changing temperatures, a key performance achievement in maintaining and enhancing the vehicle’s grip on the road surface.

Goodyear’s tests have shown rubber made with soybean oil mixes more easily in the silica-reinforced compounds used in manufacturing certain tires. This also improves manufacturing efficiency and reduces energy consumption.

Biofuels and NYC Local Law

Local Law 77 of 2003	Use of ultra low sulfur diesel and best available technology in off-road vehicles
Local Law 38 of 2005	Purchase of cleaner light duty and medium duty vehicles
Local Law 39 of 2005	Use of ultra low sulfur diesel and best available retrofit technology for diesel motor vehicles
Local Law 55 of 2007	Reduction of greenhouse gas emissions by 30% by 2017
Local Law 43 of 2010	Use of clean heating oil in New York City
Local Law 66 of 2013	Fuel management plan in response to certain emergency events
Local Law 72 of 2013	Use of auxiliary power units in ambulances
Local Law 73 of 2013	Use of biodiesel for diesel motor vehicles and revises diesel retrofit requirement
Local Law 74 of 2013	Discontinues waivers for diesel retrofits
Local Law 75 of 2013	Calculation of and reporting on the use-based fuel economy of light and medium duty vehicles
Local Law 76 of 2013	Revises the minimum average fuel economy of light-duty vehicles
Local Law 107 of 2013	Increasing the use of biofuel in city-owned buildings
Local Law 130 of 2013	Electric vehicle charging stations in open parking lots and parking garages
Local Law 29 of 2014	Right of way for pedestrians and bicyclists
Local Law 41 of 2015	Car sharing in the city fleet
Local Law 56 of 2015	Side guards
Local Law 119 of 2016	Clean heating oil
Local Law 160 of 2016	Electric vehicle charging station pilot program



Federal Biofuels Policy



For Immediate Release

October 19, 2017

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PUSHING BACK AGAINST WASHINGTON'S THREATS TO REDUCE ENVIRONMENTAL STANDARDS, NEW YORK CITY SUPPORTS AMERICA'S FARMERS AND BIODIESEL SUPPLIERS

Department of Citywide Administrative Services submits comments to EPA protesting roll-back of national renewable fuel standards and announces further expansion of use of biodiesel for fleet and buildings.

NEW YORK – New York City submitted comments to the Environmental Protection Agency (EPA) today, protesting any roll-back of the Renewable Fuel Standards (RFS) which call for minimal use levels for renewable fuels like biodiesel. Biodiesel has proven a reliable and effective fuel for NYC fleet and buildings and has helped reduce air pollution in the City while lowering greenhouse gas emission. NYC continues to grow its implementation of biofuels in buildings and fleet and calls on Washington to do the same nationally.

Biofuels can be produced in many ways including recycling of used grease from restaurants and the use of farm products such as soy plants.

Already a leader in biodiesel use, NYC is set to expand the use of biofuels:

- **Mayor de Blasio signed Local Law 119 of 2016, one of the most ambitious biofuels laws in the country.** This law will transition all fuel oil used in heating to B20 by 2034. The first stage of the expansion is happening now with all NYC public and private buildings transitioning from B2 to B5 effective October 1, 2017.
- NYC owned government buildings will meet this goal **eight years before the law requires**, going from B5 to B10, effective the winter of 2017/2018,
- NYC will also introduce the use of **renewable diesel (RD) for the first time** with a 1 million-gallon purchase scheduled for use by City agency fleets in spring, 2018. Like biodiesel, RD uses renewable and natural feedstock's to replace fossil fuels.

These efforts require a healthy and growing national biodiesel industry and set of suppliers. We object to any effort to roll-back the Renewable Fuel Standards on the part of

Mayor de Blasio: One NYC Plan



December 2015

NYC Clean Fleet

New York City will lead by example in pursuing 80×50 transportation emissions reductions by improving the sustainability of its municipal vehicle fleet

NYC Electric Vehicle Fleet



NYC Clean Fleet: EV

NYC Fleet On-Road Electric Vehicles

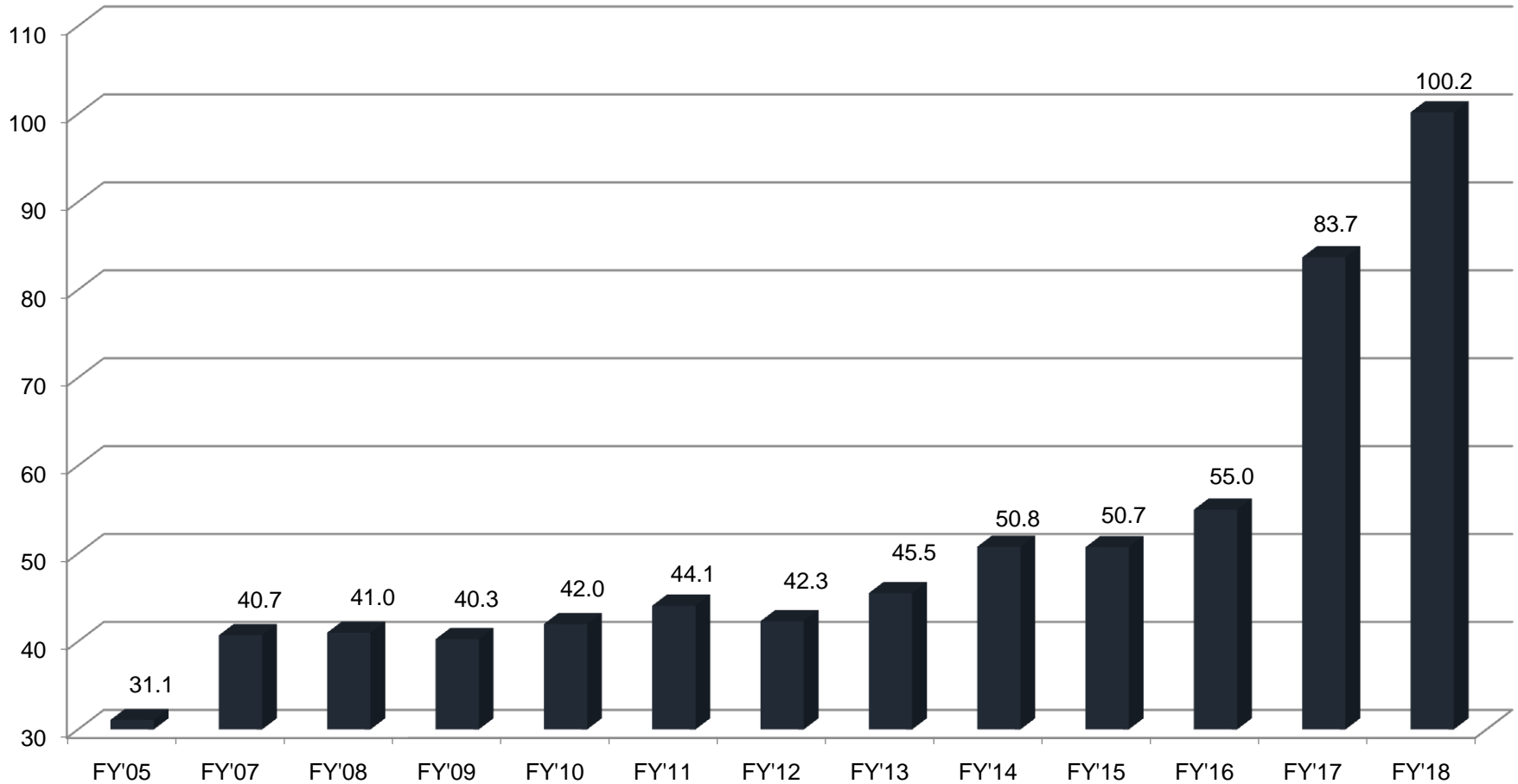


Image from vecteezy.com

NYC Fleet

NYC DCAS
Citywide Administrative Services

Fuel Economy by Fiscal Year



Federal CAFE Standards



For Immediate Release

October 5, 2017

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FACING THREATS FROM WASHINGTON, NEW YORK CITY PROVES CORPORATE AVERAGE FUEL ECONOMY STANDARDS WORK

Department of Citywide Administrative Services submits comments to EPA protesting roll-back of standards, citing NYC's record 83.7 MPG average for newly purchased City vehicles in FY17 as proof of success

NEW YORK – New York City submitted comments to the Environmental Protection Agency (EPA) today, protesting any roll-back of the Corporate Average Fuel Economy (CAFE) standards of 54.5 MPG by 2025. Disproving the EPA's theory that these goals may be too ambitious or not achievable, NYC achieved a record 83.7 miles per gallon (MPG) on average for newly purchased light and medium duty units in Fiscal Year 2017, outpacing last year's previous record of 55 MPG.

In 2005, led by then Council Member Bill de Blasio, the New York City Council passed Local Law 38, which requires the City fleet to report annually its CAFE equivalent each year for new light and medium duty fleet units and to purchase fuel efficient new vehicles. The fleet started in FY05 at 31 MPG on average and has now nearly tripled the fuel economy of its new vehicles. NYC has found this type of regulation leads to better, cheaper, more reliable, and more fuel efficient vehicles. In just the last four years, New York City demonstrated a 28 percent improvement in actual fuel economy, with a savings of more than \$600 dollars per vehicle.

"NYC has shown that ambitious CAFE standards work. For Washington to rollback these standards shows a disregard for what cities can and should achieve to help combat climate change," said **Mayor Bill de Blasio**. "We all have a responsibility to do our part. Washington should be looking to increase the standards, not do away with them. "

"In 2016, NYC matched the 2025 federal CAFE goal of 54.5 miles per gallon for its City fleet," said **Department of Citywide Administrative Services Commissioner Lisette Camilo**. "In 2017 we did even better thanks to our investment in hybrid and electric vehicles. We've shown the

Fleet



Thank you!

NYC Fleet

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