



Clean Trucks Program

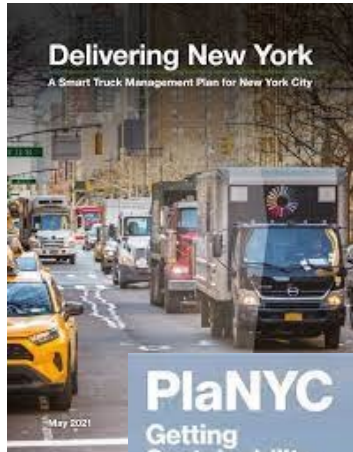
Building on the success of
DOT's Hunts Point Clean Trucks Program

NYC Clean Truck Program Overview

May 2023



Effects of Truck Traffic on Health & Equity



- In NYC, private medium- and heavy-duty vehicles contribute 11% of transportation-related greenhouse gas emissions; 12% of PM_{2.5} from traffic sources overall
- Low-income Neighborhoods near industrial zones and highways are hit hardest; correlation w/ higher than average asthma and cardiovascular ED visits due to PM_{2.5} local emissions; Hunts Pt studies confirm need
- Speeding adoption of cleaner vehicle technologies (with older engine scrappage) is embraced as a policy tool to reduce traffic impacts on public health and the environment; chiefly Ports Emission Reduction Programs nationwide (i.e., POLB/LA, PANY/NJ)

Phase 1: Program Development



Goal: To retire 500 (pre-2009) Class 3-8 diesel trucks and replace with MY 2010 (and newer) EPA certified engines (new diesel, CNG/RNG, HEV, BEV); improve local air quality in Hunts Point community

- \$29M total in applications submitted to FHWA
- \$24M for Consultant Services in Connection with the Hunts Point Clean Truck Program
- Vendor:
- Prime: Tetra Tech Inc.
- Subcontractors: GNA (Marketing), ISR (DBE – engine scrap verification); vendor reviews and approves eligibility; processes rebates to dealers; monitors compliance; takes legal action against non-compliant applicants to protect NYC DOT and federal asset recapture

Phase 1 & 2 Program: VW Consent Decree Funding



- DOT awarded \$9.8M to CTP to continue initiative; **allows program to expand to other Industrial Business Zones citywide;**
- Program re-launched and rebranded from Hunts Point CTP to NYC-CTP in June 2020

New York City Industrial Business Zones

The Bronx

Zerega
Port Morris
Bathgate
Eastchester
Hunts Point

Staten Island

West Shore
North Shore
Rossville*

Queens

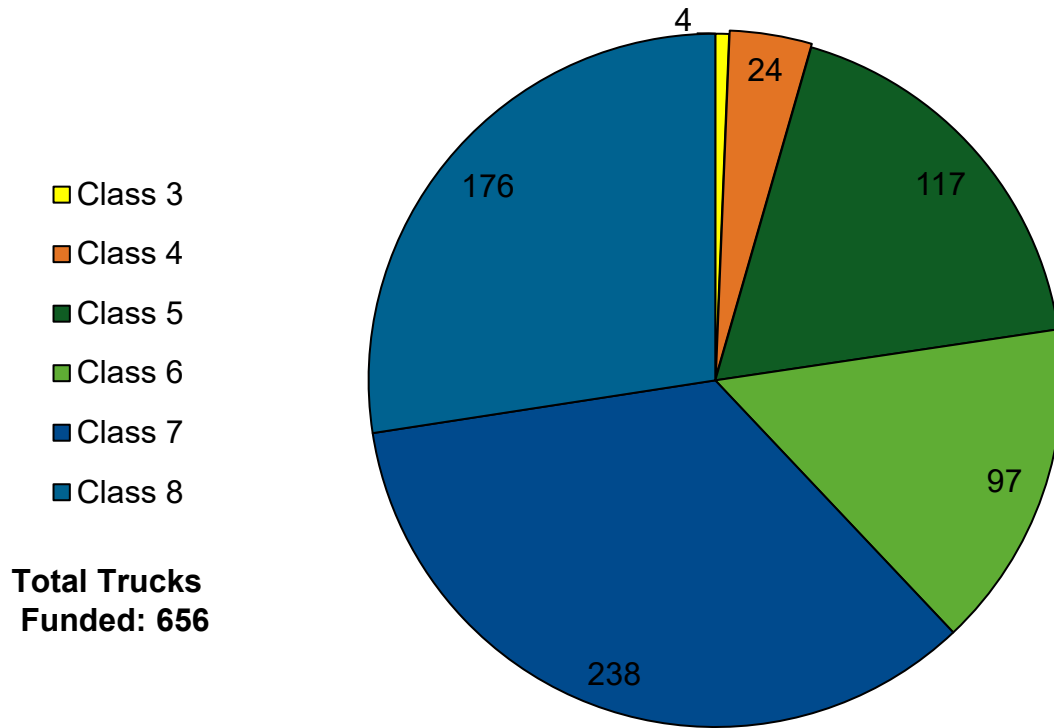
Woodside
Maspeth
Long Island City
Ridgewood
Steinway
JFK
Jamaica
Richmond Hill*

Brooklyn

Greenpoint/Williamsburg
Brooklyn Navy Yard
North Brooklyn
Southwest Brooklyn
East New York
Flatlands/Fairfield

* Do not meet EJ requirements.

Number of Funded Replacements by Class Size



~ 63% of replacements are Heavy Duty tractors or Refuse Trucks

~ 32% are Medium Duty larger box truck, dump or rack trucks

~ 5% MD – smaller walk-in van, city delivery, landscaper truck

Program Compliance Monitoring

- Automatic Vehicle Locators provide proof of use; quantify mileage within local-regional geofences in order to monitor program compliance
- 2x/week trips to IBZ; 70% of Vehicle Miles Travelled in Tri-State area

Vehicle Miles Traveled results for 2021 for 587 trucks *

HP VMT	NY (5 Borough)VMT	NY (Other) VMT	NJ VMT	CT VMT	Total VMT
396,517.40	1,653,574.30	1,575,709.40	1,226,708.00	119,475.00	4,971,984.10
7.98%	33.26%	31.69%	24.67%	2.40%	100%

Emissions Reductions Results to Date - Trucks

The NYC Clean Trucks Program and the HPCTP have reduced significant levels of NO_x, PM_{2.5}, HC, and CO annually when compared to the emissions profile of the older, diesel-fueled vehicles that were replaced.

Truck Replacements, Retrofits, and Scrappage

<i>Annual Results (short tons) 2</i>	NO_x	PM_{2.5}	HC	CO	CO₂	Fuels
Baseline for Upgraded Vehicles/Engines	457.88	24.37	34.67	137.62	53,670.10	4,770,678.00
Amount Reduced After Upgrades	407.16	23.70	29.48	111.90	8,066.30	717,008.00
Percent Reduced After Upgrades	88.92%	97.27%	85.03%	81.31%	15.03%	15.03%

As of December 31, 2022, the NYC Clean Trucks Program and HPCTP have achieved the above emission reductions through 656 truck replacements, 6 exhaust retrofits, and the voluntary scrappage of 24 trucks.

- Notes:
- 1) 1 short ton = 2,000 lbs.
 - 2) Emission reductions are calculated using the U.S. EPA's Diesel Emissions Quantifier (DEQ)

Collaborative Programming

Microhubs present an opportunity to further test strategies that promote multi-purpose improvements to freight and the public realm in partnership

Commercial Cargo Bikes

Bike Parking Initiatives



Design & Regulations



Blue Highways/ Waterborne Freight



December 2021



Marine Freight (Blue Highways)



Curb Management/Freight Decarbonization

Curb Access Initiatives



Freight Electrification

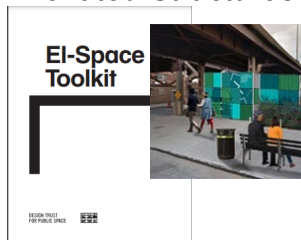


Safety & Public Realm Improvements

Better Barriers



Programming Under Elevated Structures



Thank You!

Questions?



NYCDOT



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