



Alternative Fuels: Public and Private Fleet Programs



An Update from
New York City:
CNG is still a
promise

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September , 2012



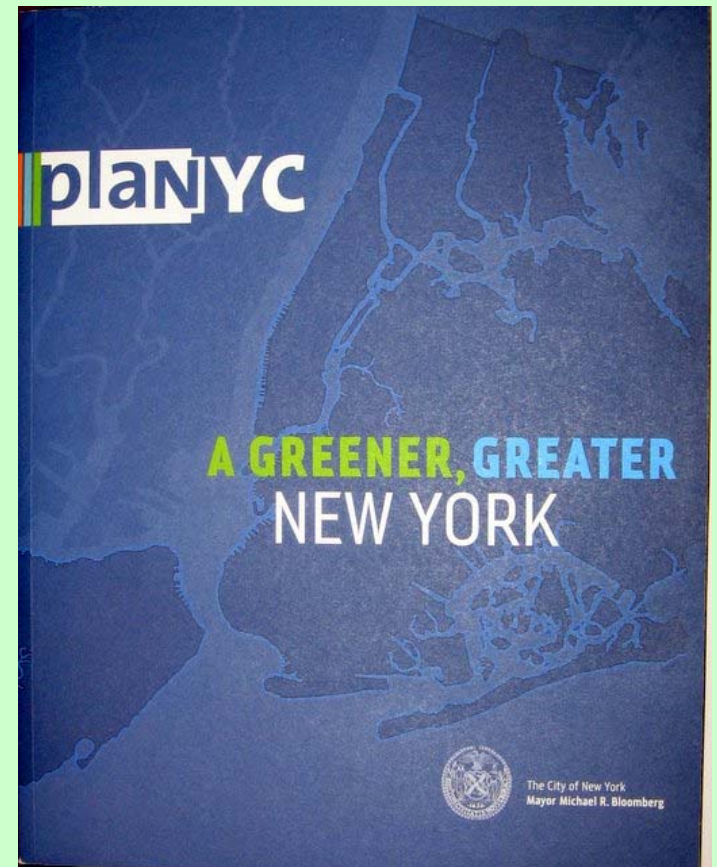
NYC Alternate Fuels Program Mission Statement

- Promote the use of clean transportation technologies in the movement of goods and people within the public and private sectors of New York City.
- Develop incentives and funding mechanisms to assist with the procurement of clean technologies until such time as they are comparable in cost to existing conventionally fueled vehicles.
- Design funding and guidance in support of NYC law and the Mayor's Office of Long Term Planning and Sustainability.



Local Action - plaNYC

- 127 Initiatives designed to prepare New York City for a sustainable future.
- Reduces the carbon footprint of the City by 30% in 10 years.
- Includes biodiesel, ethanol, hybrids, NGV's, EV's Plug-in HEV's and hydrogen vehicles to operate the City fleet and 1 million trees
- Typical of local level planning





Critical Issues



Diesel Emissions

- Black Carbon, PM - carcinogenic, GHG contributor
- 12,000 – 15,000 truck trips/day

Childhood Asthma (NYU Study)

- 25/1000 children in Hunts Pt. diagnosed with asthma
 - 17% of school-age kids
 - 2x City Average
 - 3x National Average



Severe Community Impacts

- Designated an Environmental Justice Area by USEPA



Why Natural Gas

- Vast domestic supply
- Ability to mix in biogas (methane from landfills or treatment plants full renewable).
- Energy Security
- Greenhouse benefit, criteria pollutant benefit
- Lower cost
- Downsides include Fracking, lack of adequate controls? Cost of fueling infrastructure
- Hydrogen?????/?



City Fleet

Background

- Began in 1993 with the first alternative fuels. Began as a natural gas program.
- 16,300 light duty & 8,100 heavy duty vehicles in fleet, (8,300 Police Vehicles), 950 depots.
- light duty efforts. 4200 hybrid, 200 CNG and 390 electric. PD latest fleet to add hybrids.





Department of Sanitation CNG Compactor Trucks

- 27 CNG Compactor Trucks and 18 Sweepers in Operation. All dedicated with 50 DGE of CNG.





City Fleet Assessment

- City fleet has reduced its natural gas operations over the past decade.
- Early conversions had issues
- Fueling unreliable
- Limited light duty product.
- Parks Department operates 80 CNG sedans and has 2 fueling locations.
- CNG poised for comeback in vans and pickups



Private Fleet Program

Background

- Program began in 2002. The goal is to assist early adopter fleets reduce their cost and give operational support when they switch fuels or use advanced technology.
- \$11.7M spent on 250 HD CNG, Hybrid or EV trucks and 60 Diesel retrofits. \$6.0 Million available this year.
- Oversubscribed the past 2 years - funds Retrofits, Battery, Hybrid and CNG trucks.
- High visibility early adopter efforts from Fed Ex, Manhattan Beer, Anheiser Busch, Verizon



Tens Years now

- Manhattan Beer
 - In 2002, 15 Heavy duty delivery trucks re-powered with John Deere CNG engines. A private fueling station.
 - Located in Hunt's Point industrial section of the Bronx.
 - Now operate over 40 CNG trucks and have fueling sites in the Bronx, Brooklyn and Long Island





High Visibility Private Partners



- Electric Urban Delivery Trucks. Smith Electric
- Coca Cola has moved aggressively
- Federal Stimulus money putting 50 trucks into NY metro area by end of year.
- Local fish company showing their truck.



Hunt's Point Food Distribution Center



Market Tenants

NYC Terminal Produce Market

- 47 cooperative firms

Hunts Pt. Meat Market

- 37 cooperative firms

Fulton Fish Market

- 36 cooperative firms



Hunt's Point Food Distribution Center



Corporate Tenants

Bazzini/R Best

Baldor Foods

Krasdale

Anheuser Busch

Sultana/Citarella



Hunts Point Clean Truck Program

- Dedicated fund for trucks/fleets operating or doing business in/out of Hunts Point/ Port Morris region (\$30M - \$24M federal funds)
- Offer a menu of options: Scrap, retrofit, replacement, Alternative Fuel (CNG, hybrid and BEV)
- Open enrollment – Fixed value of rebates based on technology and emissions benefits.
- Potential to create a critical mass of AFVs to support publicly accessible alternative fuels station
- Achieve goals identified in Hunts Point Vision Plan



LNG Ferry Boats ?

- Many Fleets interested
- SI looking to build next generation boats.
- LNG has potential to reduce fuel costs



Picture RollsRoyce LNG engine.



Wrap

- CNG growth biggest on the west coast. (mandates)
- Regional growth in MA, CT, NJ and Long Island
- NY City still stuck with insufficient infrastructure.
- Areas of growth, paratransit, waste, trucking,
- CNG will save high fuel usage fleets money today even in NYC.



Thank You



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