



NEW YORK CITY TAXI & LIMOUSINE COMMISSION

The State of Fuel Efficient For-Hire Vehicles



Assistant Commissioner
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May 2008

Fuel Efficient Vehicle Time Line

- June 2005- Council enacts LL72
- October 2005- TLC approves Hybrid vehicles
- November 2005- first Hybrid vehicle on the road
- July 2006- TLC auctions 254 Alternative Fuel Medallions
- March 2007- Council enacts LL52 and TLC rule extends vehicle retirement for SULEV and PZEV vehicles.
- April 2007- Mayor Bloomberg announces PLANYC
- October 2007- 550 hybrid vehicles on the road
- October 2007- Commission approves Taxi minimum fuel economy
- February 2008- TLC provides Hybrid training to industry
- April 2008- Commission approves Black Car minimum fuel economy

Current Fuel Efficient Vehicle Fleet

Vehicle make and Model	Total	Taxi	Black	Luxury	Livery
Ford Escape Hybrid	884	871	1	10	2
Toyota Prius Hybrid	97	17	2	77	1
Toyota Highlander Hybrid	105	90	15		
Lexus RX 400H Hybrid	67	3	29	34	1
Toyota Camry Hybrid	98	30	63	2	3
Nissan Altima Hybrid	28	24	4		
Mercury Mariner Hybrid	9	5	1	3	
Honda Civic Hybrid	1	1			
Total	1289	1,041	115	126	7

Lessons from Fuel Efficient Taxis

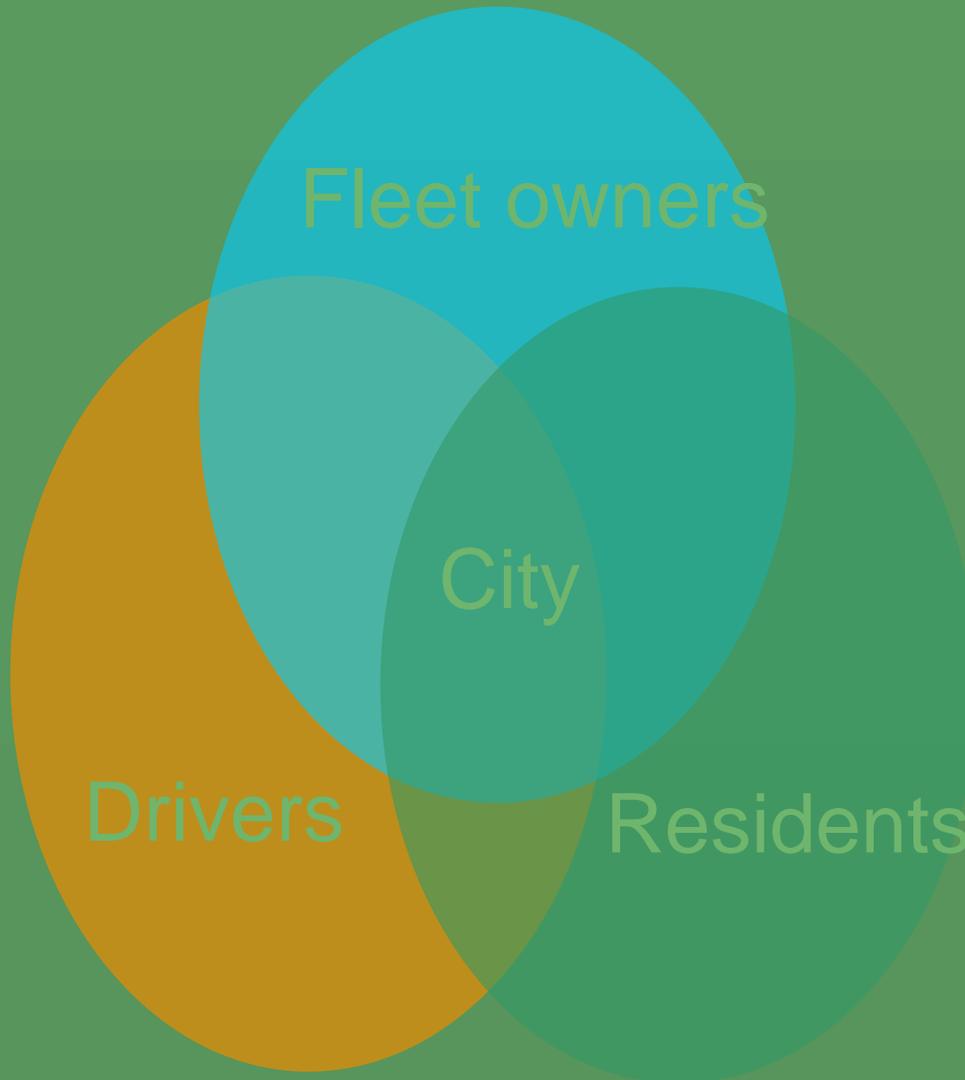
Taxi Fleet – is more fuel efficient than ever:

- 1,041 hybrid vehicles on the road
- The first 18 hybrid vehicles will complete full fleet cycle in November 2008, these vehicles have traveled over 240,000 miles
- 3% of new Hack ups are hybrid vehicles
- 367 new voluntary hybrid vehicles on the road since January 2008

Clean Diesels

- More rugged, durable and efficient than gasoline engines
- 30%-35% more efficient than similar size gasoline engine
- More power and fuel efficiency than any other alternatives including gasoline, CNG or LPG
- New Clean Diesels capable of meeting strict SULEV or Tier 2 Bin 5 Emissions levels, similar to Hybrids.
- First Clean Diesels expected to arrive in US in late 2008.

Benefits are Shared



Benefits of Minimum MPG Standard

When all 13,237 taxicabs and approximately 11,000 black cars go from an average 15 mpg to an average of 30 mpg there are great benefits:

- ▮ An average of \$6,000 in gas savings per vehicle annually
- ▮ An annual reduction of approximately 900,000 barrels of oil or about 35 million gallons of fuel.
- ▮ An annual reduction of approximately 390,000 tons greenhouse gas emissions (carbon dioxide, nitrous oxide, and methane)
- ▮ Emissions reduction would be equal to taking 45,000 cars off the streets

Hybrid Vehicle Maintenance & Fuel Costs

- Fuel Savings for typical Hybrid is \$20-\$30/shift, \$120+/6day week, about \$6200/year (assuming gasoline is \$3.90/gallon).
- Maintenance Intervals are longer resulting in estimated savings of \$500/year/vehicle.
- Hybrids taxicabs pass TLC Safety and Emissions Inspections at a rate almost twice that of non-Hybrids.
- There have been no reported issues with batteries or hybrid electric systems.
- Hybrid Secondary Market Values are higher then non-hybrid vehicles.
- Parts and Labor Costs for typical vehicle maintenance is comparable to conventional vehicles.

Fuel Efficient Vehicle Availability

TLC records indicate that approximately 200 new vehicles are hacked up each month

A survey of major taxi suppliers in the tri-state area indicate:

Ford reports:

- ┆ Over 250 Escape and Mariner Hybrids on dealer lots
- ┆ Ford will limit # of factory painted Escape Taxis to 50/mo for NYC market
- ┆ Ford will manufacture approximately 24,000 2009 Escape Hybrids

Toyota reports:

- ┆ 400 Camry Hybrids on dealer lots.
- ┆ 300 Highlander Hybrids on dealer lots
- ┆ 400 Prius on dealer lots.
- ┆ Lexus Rx400h is in high demand-1-2 per dealer per month.

Nissan reports:

- ┆ Under 50 vehicles at dealers
- ┆ Nissan can provide 200+ vehicles per month to meet fleet demand.
- ┆ Fleet program available to qualified purchasers.

Moving Forward

TLC PlaNYC Implementation:

- Standards for Taxis:
 - October 2008-25 mpg minimum for all new taxicabs
 - October 2009-30 mpg minimum for all new taxicabs
 - Yearly Fleet Status Update and Evaluation to Commission (May)
- Standards for Black Cars:
 - January 2009-25mpg for all Black Cars and 6 year retirement
 - January 2010-30mpg for all Black Cars
 - Yearly Fleet Status Update and Evaluation to Commission (May)

Website:

- Vehicle Information
- Cost/Benefit Analysis
- Links to city, state and federal incentives

Public/Industry Outreach:

- Informational Sessions
- Multiple technician training sessions
- Grassroots outreach

Taxi of Tomorrow:

- TLC is proactively working with stakeholders to find a taxicab solution that best meets the needs of NYC