

# DOE Clean Cities Program Overview



Compelling Case for Natural Gas Vehicles  
8 September 2011

**Don Francis**  
**Executive Director**  
**Partnership for Clean Transportation**

[don@cleancitiesatlanta.net](mailto:don@cleancitiesatlanta.net)

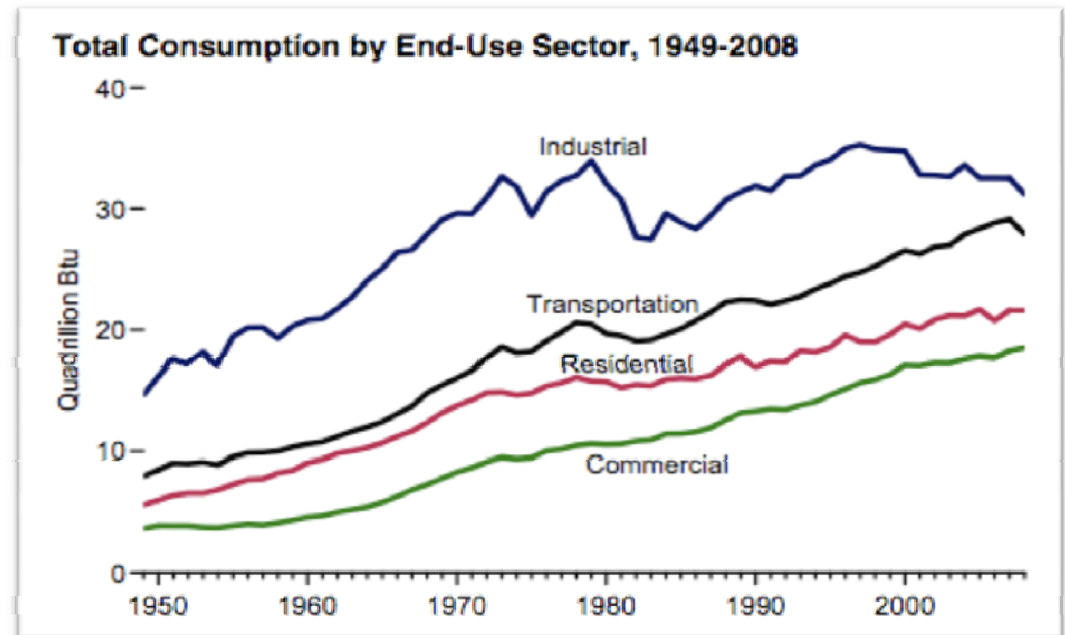
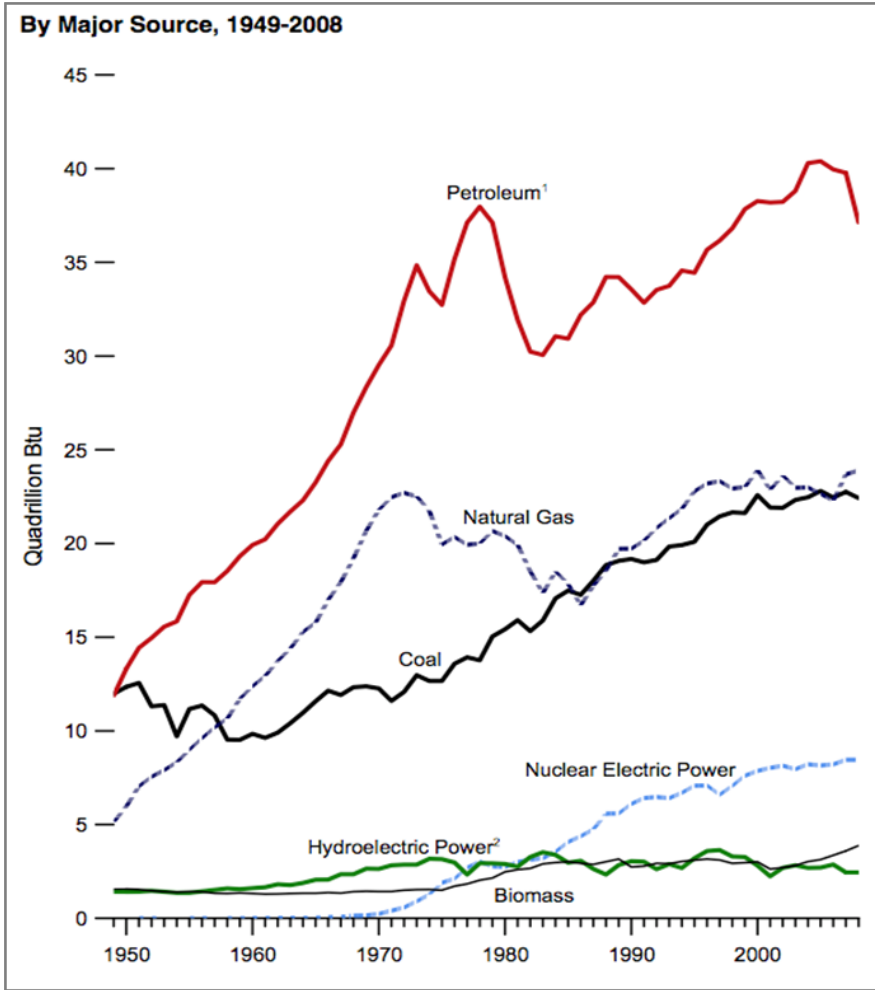
404-906-0656

To advance the energy, economic, and environmental security of the U.S. by supporting local decisions to adopt practices that contribute to the reduction of petroleum consumption in the transportation sector.

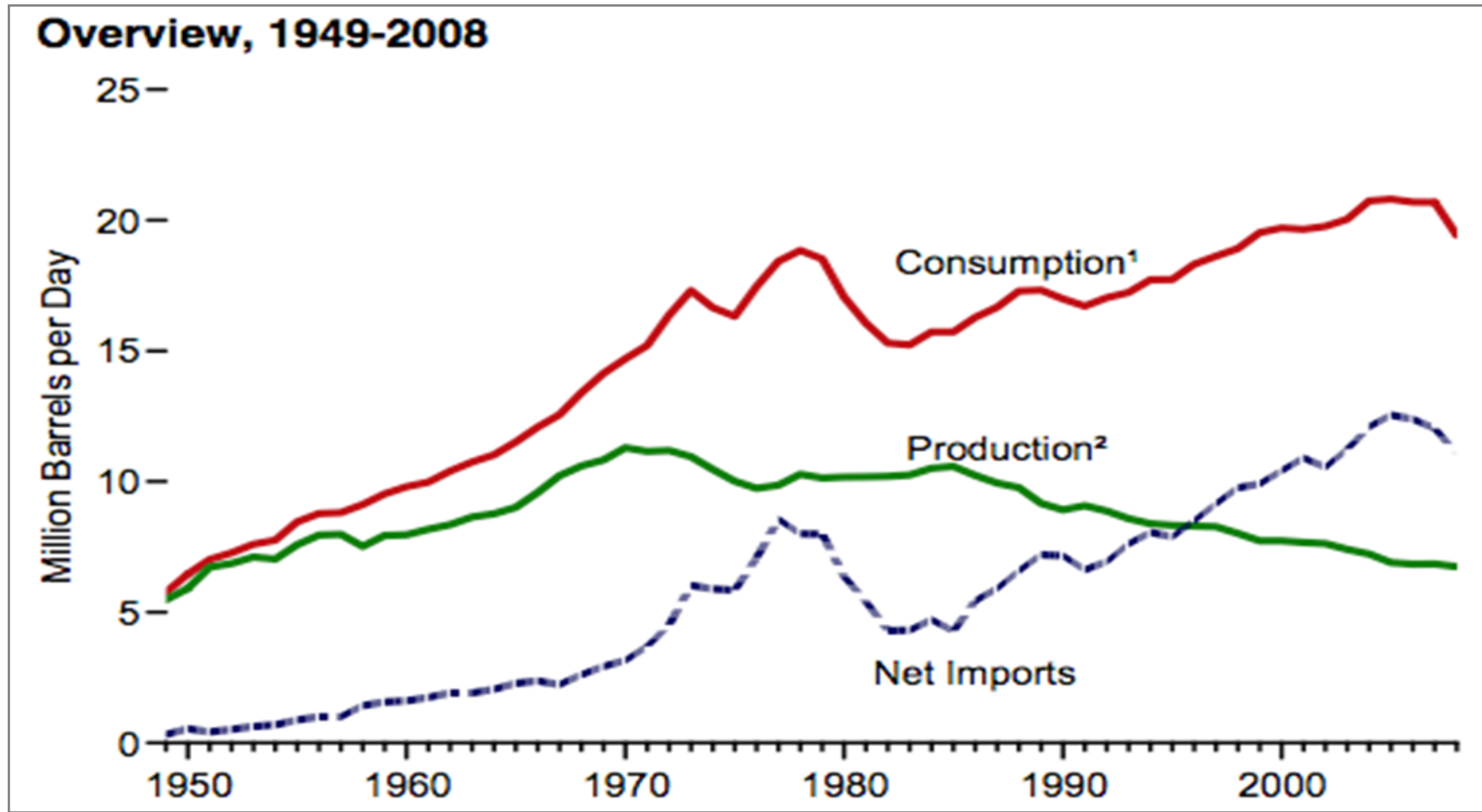
---

- Sponsored by the DOE's Office of Energy Efficiency and Renewable Energy's Vehicle Technologies program
- Provides a framework for businesses and governments to work together as a coalition to enhance markets
- Coordinate activities, identify mutual interests, develop regional economic opportunities, and improve air quality

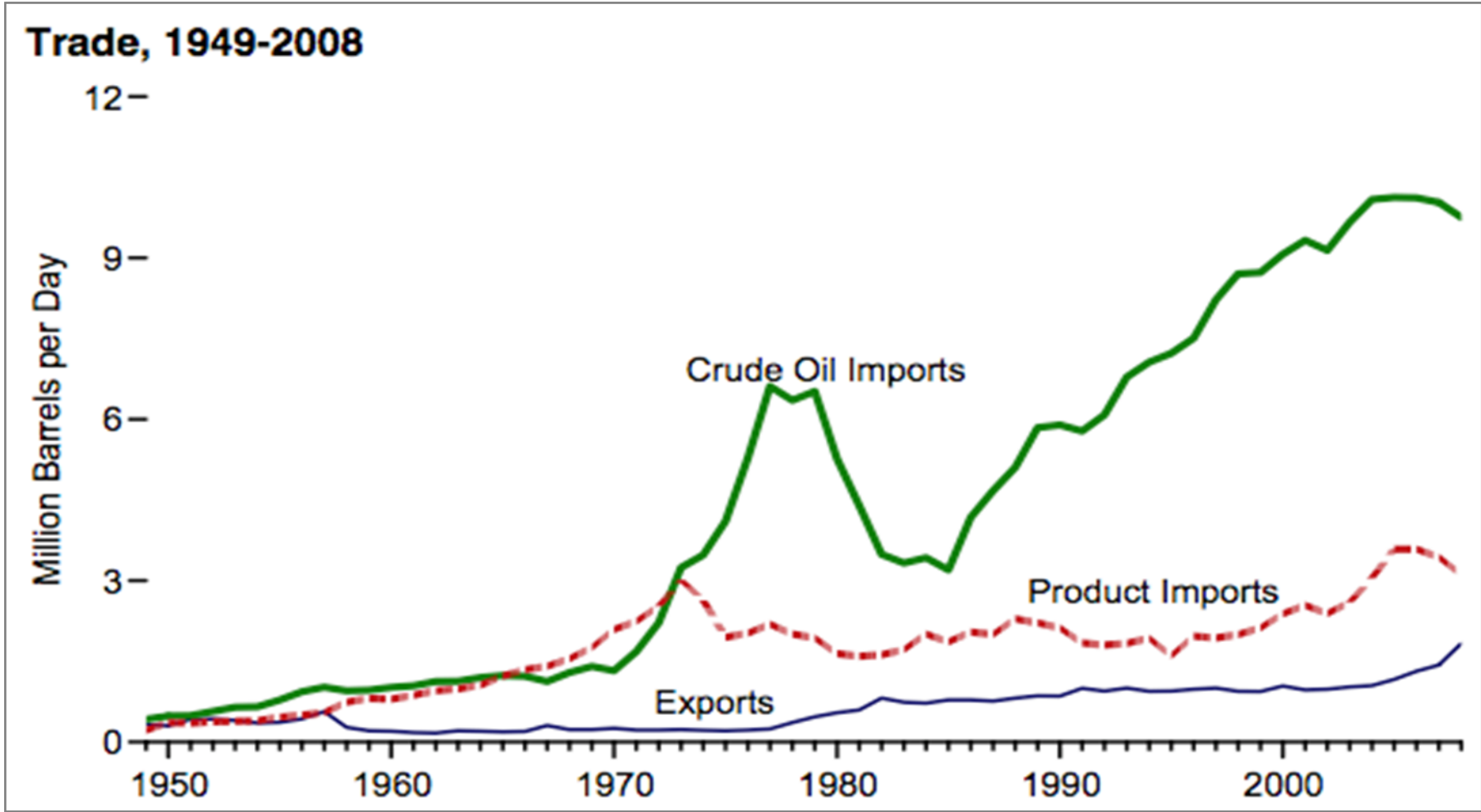
# U.S. Energy Consumption



Source: [Annual Energy Outlook 2009](#), Energy Information Administration.

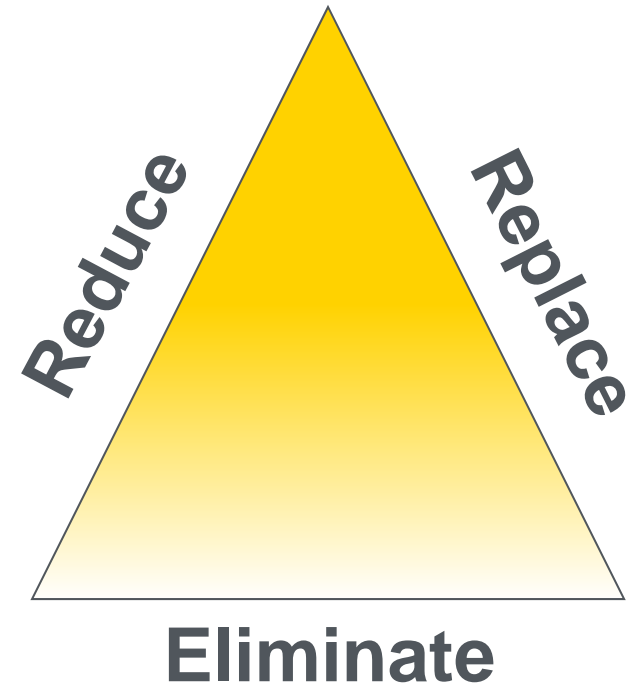


Source: [Annual Energy Outlook 2009](#). Energy Information Administration.



Source: [Annual Energy Outlook 2009](#), Energy Information Administration.

- **Replace** petroleum with alternative fuels and low-level blends.
- **Reduce** by promoting energy efficiency in vehicles through advanced technologies and more fuel efficient vehicles.
- **Eliminate** by promoting idle reduction, greater use of mass transit, trip elimination, and other congestion mitigation approaches.



## Alternative Fuels and Vehicles

- Biodiesel (B100)
- Electricity
- Ethanol (E85)
- Hydrogen
- Natural gas
- Propane

## Fuel Blends

- Biodiesel/diesel blends (B2, B5, B20)
- Ethanol/gasoline blends (E10)
- Hydrogen/natural gas blends (HCNG)

## Fuel Economy

- Fuel efficiency
- Behavioral changes
- Vehicle maintenance initiatives
- Vehicle miles traveled (VMT)

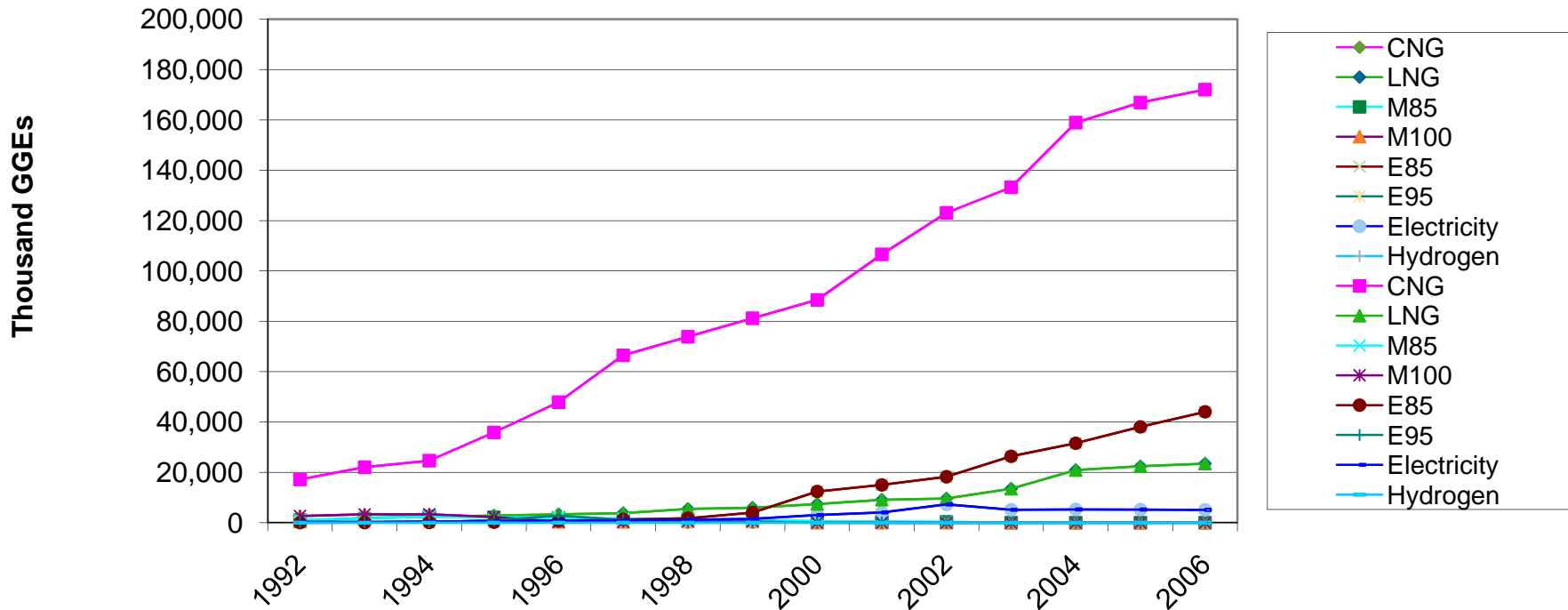
## Hybrids

- Light- and Heavy-duty HEVs
- PHEVs

## Idle Reduction

- Heavy-duty trucks
- School buses
- Truck stop electrification

## Estimated Consumption of Alternative Fuel by AFVs in the U.S.



Source: AFDC

U.S. DEPARTMENT OF **ENERGY** | Energy Efficiency & Renewable Energy

## Clean Cities

[About the Program](#) | [Coalitions](#) | [Coordinator Toolbox](#) | [Financial Opportunities](#) | [Information Resources](#)

Search  
[Search Help](#) | [More Search Options](#)  
[EERE Information Center](#)  
[NEWS](#)

Clean Cities strives to advance the nation's economic, environmental, and energy security by supporting local decisions to adopt practices that contribute to the reduction of petroleum consumption. Clean Cities has a network of approximately 90 volunteer coalitions, which develop public/private partnerships to promote alternative fuels and advanced vehicles, fuel blends, fuel economy, hybrid vehicles, and idle reduction.

Clean Cities is part of the Office of Energy Efficiency and Renewable Energy's [Vehicle Technologies Program](#).

**Select Coalition-Related Information**

- [Starting Coalitions](#)
- [Coalition Locations](#)
- [Program Contacts](#)
- [Coordinator Contacts](#)

[What is Clean Cities? Fact Sheet \(PDF 2 MB\)](#)  
[Download Adobe Reader](#)

[Printable Version](#)

U.S. DEPARTMENT OF **ENERGY** | Energy Efficiency & Renewable Energy

## Alternative Fuels & Advanced Vehicles Data Center

[About the AFDC](#) | [Fuels](#) | [Vehicles](#) | [Fleets](#) | [Incentives & Laws](#) | [Data, Analysis & Trends](#) | [Information Resources](#)

Search  
[Search Help](#) | [More Search Options](#)  
[Site Map](#)  
[EERE Information Center](#)

The Alternative Fuels and Advanced Vehicles Data Center (AFDC, formerly known as the Alternative Fuels Data Center) provides a wide range of information and resources to enable the use of alternative fuels (as defined by the [Energy Policy Act of 1992](#)), in addition to other petroleum reduction options such as advanced vehicles, fuel blends, idle reduction, and fuel economy.

This site is sponsored by the U.S. Department of Energy's [Clean Cities](#) initiative.

**Data, Analysis, and Trends**

Our [Data, Analysis, and Trends](#) section provides industry trends and facts based on data analysis.

[Printable Version](#)

**www.fueleconomy.gov**

[Links](#) | [FAQ](#) | [Site Map](#) | [Search](#) | [Contacts](#)

United States Department of Energy  
 Energy Efficiency and Renewable Energy
 
 United States Environmental Protection Agency

**FIND AND COMPARE CARS...**

Gas mileage (MPG), greenhouse gas emissions, air pollution ratings, and safety information for new and used cars and trucks

- [Compare Side-by-Side](#)
- [Advanced Search](#)

**Why is fuel economy important?**

Climate Change  
Strengthen National Security

**Diesel Vehicles**

- ~~16¢~~ Tax Incentives
- Biodiesel

**Gas Mileage Tips**

- Driving More Efficiently
- Drive Smarter Challenge

**Hybrid Vehicles**

- How Hybrids Work
- Tax Incentives

**CARS**  
car allowance rebate system

Trade in your old, inefficient vehicle for a new, more efficient one.

Also known as the "Cash for Clunkers" Program

**YOUR MPG ...**

**Videos**

- Extreme MPG
- Motorweek Videos

**Alternative Fuel Vehicles**

- Flex-Fuel Vehicles

**In the News...**

Electric Cars' MPG Conundrum - BusinessWeek

[More Are Hired to Speed Up the Clunker Reimbursements](#) - The New York Times

Scion dealers say tiny iQ is coming in 2010 - AutoWeek

[Disclaimer](#) [More News](#)

*Clean Cities*  
*AFDC*  
*FuelEconomy.gov*

Clean Cities Web site

[www.eere.energy.gov/ccities](http://www.eere.energy.gov/ccities)

Alternative Fuels & Advanced Vehicles Data Center Web site

[www.eere.energy.gov/afdc](http://www.eere.energy.gov/afdc)

Clean Cities Coordinator Contact Information and Coalition Web sites

<http://www.afdc.energy.gov/cleancities/progs/coordinators.php>

DOE EERE Information Center and Technical Response Service

Web Site: <http://www.eere.energy.gov/afdc/informationcenter.html>

Phone: 1-800-EERE-INF (1-877-337-3463)

Email: [technicalresponse@icfi.com](mailto:technicalresponse@icfi.com)

Hours: 9:00 a.m. – 6:00 p.m. EST



**Don Francis**  
**Executive Director**

*Don@CleanCitiesAtlanta.net*  
*(404) 906-0656*

**Partnership for Clean Transportation, Inc.**  
2987 North Druid Hills Road NE  
Suite 144  
Atlanta, Georgia 30329

*CleanCitiesAtlanta.net*