Clean Cities Tools and Resources

Vehicle Technologies Program Merit Review

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Outline

Clean Cities Tools and Resources

AFDC and Clean Cities Website
FuelEconomy.gov

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Goals and Objectives

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

Coordinate at the local level to influence and assist multiple decision makers in implementing alternative fuel and advanced transportation projects

Produce and disseminate timely, consistent, accurate information and tools to help vehicle users make decisions
Project Overview

Timeline
- AFDC and FuelEconomy.gov have been supporting Clean Cities stakeholders since the inception of the program

Barriers
- Resources to address implementation challenges for consumers and fleets
- Lack of understandable, unbiased information to facilitate decision making

Funding
- www.afdc.energy.gov: $1.2M annually
- www.fueleconomy.gov: $1M annually

Partners
- NREL/ORNL
- ANL/NETL
- EPA
- Clean Cities coordinators
- Industry stakeholders/trade groups
- Maryland Public Television, PBS
Approach

Provide unbiased information and tools to aid decision makers in their use of alternative fuels, advanced technologies and efficient vehicles.
Impacts

Visits - FY2008
AFDC.energy.gov

14M visits to FuelEconomy.gov in FY2008

User Sessions - FY2008
FuelEconomy.gov

1.2M visits to AFDC in FY2008
Accomplishments: AF Station Locator

- Uses Google maps
- Two search levels
- Umbrella for all technologies
Accomplishments: Emissions Updates

Alternative & Advanced Vehicles

Alternative Fuel Vehicle Emissions
Vehicle emissions are known to negatively affect air quality and human health. For those reasons, emission reduction plays a role in many fleet and consumer decisions to acquire alternative fuel vehicles (AFVs). However, many drivers don’t know that emission reductions vary between alternative fuels. This section details emission pollutants and their impact on human health and the environment, compares alternative fuel emissions with those of their conventional counterparts, and explains the methodology used to compare vehicle emissions.

This page serves as a table of contents for the Emissions section. For more information, choose the following links.

Pollutants and Health
- Biodiesel
- Electricity
- Ethanol
- Natural Gas
- Propane
- Hydrogen
- Comparison Methodology

• Basic information about emissions
• Credible publications
• Links to recent testing and analysis
Accomplishments: State Pages

Colorado Information
This state page compiles information related to alternative fuels and advanced vehicles in Colorado and includes new incentives and laws, alternative fueling station locations, truck stop electrification sites, fuel prices, and local points of contact.

Incentives and Laws
Read about Colorado’s Incentives and Laws, including the latest ones listed below:
- High Occupancy Vehicle (HOV) Lane Exemption
- Gasoline Gallon Equivalent Definition
- Alternative Fuels Tax and Vehicle Decal
- Alternative Fuel Use and Vehicle Acquisition Requirement
To look up nationwide legislative activity, visit Incentives and Laws.

Locator Tools

Alternative Fueling Station Locator
Look up the locations of Colorado’s 162 alternative fueling stations:
- Biodiesel (23)
- Ethanol (74)
- Natural Gas
- Electricity (9)
- Hydrogen (1)
- Propane
For a nationwide search, visit the Alternative Fueling Locator.

Truck Stop Electrification (TSE) Sites
There is 1 TSE site in this state. Find sites nationwide or more, visit Truck Stop Electrification.

Biomass Production Facilities
For a map of nationwide locations, visit: Biodiesel Production Facilities (PDF 460 KB) and Ethanol Production Facilities (PDF 484 KB). Download Adobe Reader. For a map of nationwide locations, visit Biomass Production Facilities.

Biomass Resources
The State Assessment for Biomass Resources tool illustrates the potential production and use of biofuels throughout the U.S. Visit the Colorado Biomass Resources page for specific data on this state.

State Activities & Partnership
For information on energy efficiency and renewable energy projects, partnerships, and grants in this state, visit Colorado State Activities and Partnerships.
Accomplishments: Mapping Tool

Users customize information displayed by checking boxes for each element.
Accomplishments: Heavy Vehicles

Updates to the heavy vehicle search make comparing vehicles easier – side by side.
Accomplishments: New Methods

Moving beyond the Internet to solutions that reach audiences from a variety of angles (mobile tools, RSS feeds)

- **AFDC RSS feed** initiated in 2008
- **Mobile station locator** launched in 2009
- **Mobile FuelEconomy.gov** launched in 2008
Accomplishments: Spanish Language

A new Spanish version of “Find and Compare Cars” and “Gas Mileage Tips” help us expand our audience.
Accomplishments: MotorWeek

PBS MotorWeek segments influence viewers and provide valuable video content for the Web site.

Provided by Maryland Public Television, PBS
Accomplishments: Your MPG

Helps users calculate, track, and share their MPG.
Accomplishments: Extreme MPG

- Highlights fuel efficiency world records
- MPG contests
- Concept cars/upcoming vehicles
- Most-efficient
- EPA-certified vehicles
- News/links to more information
Accomplishments: Continuous Improvement

Market research helps us improve FuelEconomy.gov

- Two online focus groups evaluated FuelEconomy.gov and the mobile site
- Based on comments collected, a new “Advanced Search Tool” was added to the “Find and Compare Cars” section
Future Activities

• Usability studies for AFDC updates
  • Laws and incentives
  • Vehicle search
  • Mapping tools
• Web modules on how to use Clean Cities tools via *Clean Cities University*
• Release Google gadgets/portlets of key tools
Summary

- The AFDC and FuelEconomy.gov are widely used, recognized, and respected as sources of advanced vehicle expertise and information
- Projects are targeted to respond to the public, industry, and stakeholder needs
- Partnerships with key organizations ensure accurate and quality information
- Information is technically sound and unbiased
- Program is making tangible contributions today