

# Petroleum REduction Planning (PREP) Tool

Ted Sears

Propane Engine Fuel Summit  
Detroit, Michigan

November 12, 2008

NREL/PR-540-44529

# PREP Tool – Agenda

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- Alternative Fuels and Advanced Vehicles Data Center (AFDC)
- Background on the PREP Tool
- “Unveiling” the PREP Tool
- Holding promise for numerous applications
  - Fleet management and operation
  - Equipment and vehicle supply
  - Fuel marketing or distribution
  - Regulatory program involving:
    - Fleets
    - Fuels
    - Alternative fuel vehicles
- Online demo of PREP Tool

# Background: The AFDC

- Comprehensive clearinghouse of data, publications, tools, and information related to advanced transportation technologies
- Hosts more than 3,000 documents and numerous interactive tools
- URL: [www.afdc.energy.gov/afdc/](http://www.afdc.energy.gov/afdc/)
- Provides tools and resources to meet and exceed requirements
  - Types of information available
    - Alternative and Advanced Vehicles Portal
    - Fuel Economy Web site (Fuel Economy Guide)

# AFDC Information – Fuels

- Are you looking for general information on alternative and advanced fuels?
  - The AFDC's Fuels section ([www.eere.energy.gov/afdc/fuels/index.html](http://www.eere.energy.gov/afdc/fuels/index.html)) features detailed descriptions of all EPA-act-approved alternative fuels—including propane, E85, biodiesel, and natural gas—and advanced fuels (e.g., biogas, P-Series, and Fischer-Tropsch diesel).

# AFDC Information – Vehicles

- Vehicle Make and Model Search
  - Lists, specs, comparison, cost, and emissions calculator

The screenshot displays the AFDC website interface. At the top, it features the U.S. Department of Energy logo and the text "Energy Efficiency and Renewable Energy" with the tagline "Bringing you a prosperous future where energy is clean, abundant, reliable, and affordable". The AFDC logo is also present. Below this is a green banner for the "Alternative Fuels & Advanced Vehicles Data Center". A navigation bar includes links for "About the AFDC", "Fuels", "Vehicles", "Fleets", "Incentives & Laws", "Data, Analysis & Trends", "Information Resources", and "Home". The main heading is "Alternative & Advanced Vehicles". A search bar is located on the right. A red arrow points to the "Propane Vehicles" link in the left sidebar. The main content area is titled "Propane Vehicles" and includes a "Printable Version" link. The text describes propane as liquefied petroleum gas (LPG) and provides statistics on its use in the United States and worldwide. It also mentions the availability of new light-duty vehicles and the option to retrofit existing ones. A "Related Information" box lists links for "Incentives & Laws", "Publications", and "Related Links". The right sidebar contains a "Site Map" and "EERE Information Center" section with links for "NEWS", "EVENTS", and "FEATURES". The "FEATURES" section includes "Propane Tank Overfill Safety Advisory", "Alternative Fueling Station Locator", and "Clean Cities".

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AFDC

EERE Home

## Alternative Fuels & Advanced Vehicles Data Center

About the AFDC | Fuels | **Vehicles** | Fleets | Incentives & Laws | Data, Analysis & Trends | Information Resources | Home

# Alternative & Advanced Vehicles

Search [ ] Search Help | More Search Options |

Vehicle Make & Model Search

Flexible Fuel Vehicles

Natural Gas Vehicles

**Propane Vehicles**

What is a Propane Vehicle?

Availability

Emissions

Hybrid Electric Vehicles

Plug-in Hybrid Vehicles

Electric Vehicles

Fuel Cell Vehicles

Diesel Vehicles

Conversions

Resale

Technician Training

Printable Version

### Propane Vehicles

Propane, also known as liquefied petroleum gas or LPG, is considered an alternative fuel under the [Energy Policy Act of 1992](#). There are more than 270,000 on-road propane vehicles in the United States and more than 10 million worldwide. Many are used in [fleets](#), including light- and heavy-duty trucks, buses, taxicabs, police cars, and rental and delivery vehicles.

The availability of new light-duty original equipment manufacturer propane vehicles has declined in recent years. However, certified installers can economically and reliably [retrofit](#) many light-duty vehicles for propane operation. Propane engines and fueling systems are also available for heavy-duty vehicles such as school buses and street sweepers.

This page serves as a table of contents for the Propane Vehicles section. To learn about these alternative fuel vehicles, choose from the links below.

**What is a Propane Vehicle?** ▶

Related Information:

- ▶ [Incentives & Laws](#)
- ▶ [Publications](#)
- ▶ [Related Links](#)

Site Map  
EERE Information Center

- NEWS ▶
- EVENTS ▶
- FEATURES

Propane Tank Overfill Safety Advisory ▶

Alternative Fueling Station Locator ▶

Clean Cities ▶

# AFDC Information – Emissions

- Vehicle Emissions

AFDC Information Center Navigation: About the AFDC, Fuels, **Vehicles**, Fleets, Incentives & Laws, Data, Analysis & Trends, Information Resources, Home

## Alternative & Advanced Vehicles

Search:  Search  
Search Help | More Search Options

Site Map | EERE Information Center

[Printable Version](#)

<b>Vehicle Make &amp; Model Search</b>	<h3>Propane Vehicle Emissions</h3> <p>Compared with vehicles fueled with conventional diesel and gasoline, propane (also known as liquefied petroleum gas or LPG) vehicles can produce significantly lower amounts of some harmful emissions and the greenhouse gas carbon dioxide.</p>  <h3>Vehicle Emissions: Propane vs. Gasoline</h3> <p>Testing has been performed to compare the emissions of light-duty propane vehicles versus light-duty gasoline vehicles. For detailed results of some tests, see Compressed Natural Gas and Liquefied Petroleum Gas Conversions: The National Renewable Energy Laboratory's Experience (<a href="#">PDF 262 KB</a>) and Fact Sheet: Ford F-250 Bi-Fuel Propane Pickup (<a href="#">PDF 852 KB</a>). <a href="#">Download Adobe Reader</a>.</p> <p>The emissions performance of modern propane vehicles is far superior to that of previous generations. A major reason for this is the strict U.S. Environmental Protection Agency (EPA) <a href="#">emission requirements</a> for converted vehicles.</p> <p>The EPA calculated the potential benefits of propane versus gasoline based on the inherently cleaner-burning characteristics of propane, summarized in Clean Alternative Fuels: Propane (<a href="#">PDF 71 KB</a>). (<a href="#">Download Adobe Reader</a>).</p>
<b>Flexible Fuel Vehicles</b>	
<b>Natural Gas Vehicles</b>	
<b>Propane Vehicles</b>	
What is a Propane Vehicle?	
Availability	
<b>Emissions</b>	
<b>Hybrid Electric Vehicles</b>	
<b>Plug-in Hybrid Vehicles</b>	
<b>Electric Vehicles</b>	
<b>Fuel Cell Vehicles</b>	
<b>Diesel Vehicles</b>	
<b>Conversions</b>	
<b>Resale</b>	
<b>Technician Training</b>	
<b>Idle Reduction</b>	
<b>Fuel Economy</b>	
<b>Emissions</b>	

# AFDC Information – Vehicle Availability



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AFDC

EERE Home

## Alternative Fuels & Advanced Vehicles Data Center

About AFDC Fuels **Vehicles** Fleets Incentives & Laws Data, Analysis & Trends Information Resources Home

### Alternative & Advanced Vehicles

Search  Search Help More Search Options

Vehicle Make & Model Search [Printable Version](#)

- Flexible Fuel Vehicles
- Natural Gas Vehicles
- Propane Vehicles**
  - What is a Propane Vehicle?
  - Availability**
  - Emissions
- Hybrid Electric Vehicles
- Plug-in Hybrid Vehicles
- Electric Vehicles
- Fuel Cell Vehicles
- Diesel Vehicles
- Conversions
- Resale
- Technician Training

### Propane Vehicle Availability

No light-duty propane (also known as liquefied petroleum gas or LPG) vehicles are available for sale by automotive original equipment manufacturers (OEMs). However, certified installers can economically and reliably [retrofit](#) many light-duty vehicles for propane operation (see below for more information on [retrofitting/conversion](#)). [Roush Industries](#) is developing a [dedicated propane pickup truck](#) to meet OEM-like standards.

Propane engines and fueling systems are also available for medium- and heavy-duty vehicles such as school buses and street sweepers, including some from OEMs. Following are two examples of heavy-duty engines and vehicles:

- School districts in Dallas and Denton, Texas, and Portland, Oregon, rely on propane school buses. Dallas County operates 500 propane buses. In 2007, [Blue Bird Corporation](#) introduced the [Vision Propane](#) model, the first propane bus from a major manufacturer since 2002. It features CleanFUEL USA's [Liquid Propane Injection](#) (LPI) system.
- [Cummins Westport](#) released the 5.9-liter propane-powered [B LPG Plus](#) engine in 1997. It is available in new vehicles manufactured by El

# AFDC Information – Fueling Stations

- Fueling Stations
  - Propane station locations and infrastructure development

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## Alternative Fuels & Advanced Vehicles Data Center

About the AFDC | **Fuels** | Vehicles | Fleets | Incentives & Laws | Data, Analysis & Trends | Information Resources | Home

### Alternative & Advanced Fuels

**Biodiesel**  
**Electricity**  
**Ethanol**  
**Hydrogen**  
**Methanol**  
**Natural Gas**  
**Propane**  
Basics  
**Stations**  
- Locations  
- Infrastructure Development  
Incentives & Laws  
Publications  
Related Links  
**Ultra-low Sulfur Diesel**  
**Emerging Fuels**

**Propane Fueling Stations**  
There are approximately 2,500 propane (also known as liquefied petroleum gas or LPG) fueling stations in the United States, the largest fueling infrastructure of any alternative fuel. This page lists resources for finding sites that offer propane and information on building propane fueling infrastructure.

[Printable Version](#)

**Propane Station Locations** ▶

**Propane Infrastructure Development** ▶

[Printable Version](#)

Site Map  
EERE Information Center

**FEATURES**

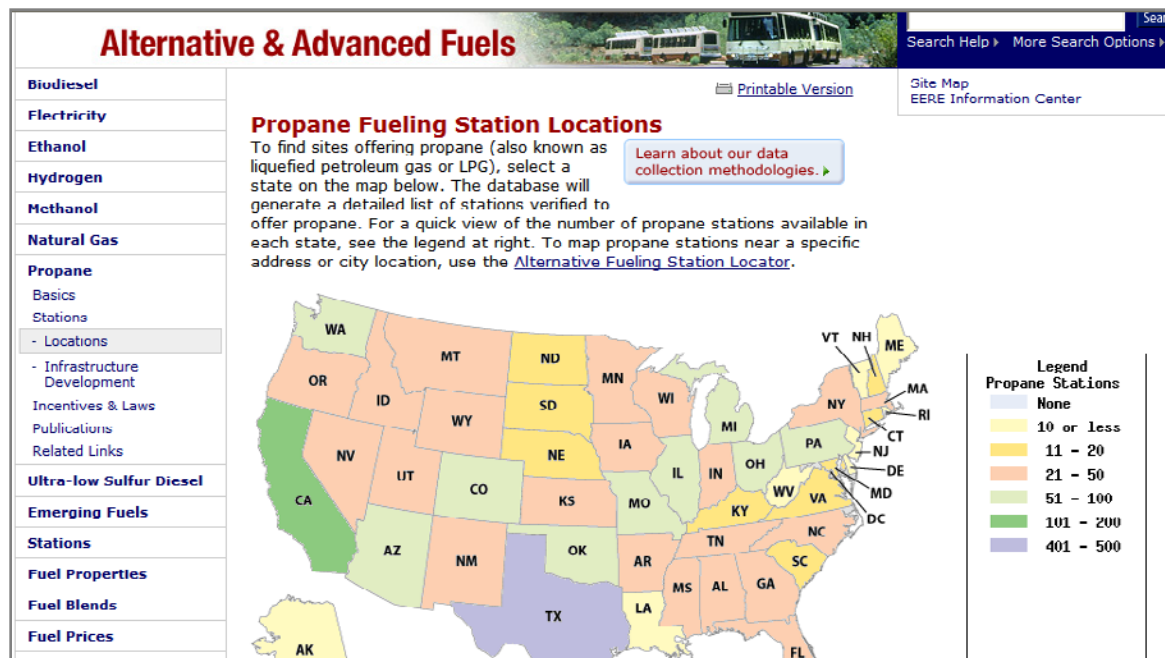
**Propane Tank Overfill Safety Advisory** ▶

**Total Station Counts**  
By State and Fuel Type ▶



# AFDC Information – Fueling Stations

- Do you want to find propane or other alternative fuels in your area?
  - Visit the Alternative Fueling Station Locator ([www.eere.energy.gov/afdc/fuels/stations.html](http://www.eere.energy.gov/afdc/fuels/stations.html)), and your vehicles' garaging address. The Station Locator will pull up a list of stations within a chosen radius.
  - State counts, maps, route mapper, locations, and hours




# AFDC Information – Stations and Route Mapper

## Alternative Fuels & Advanced Vehicles Data Center

About the AFDC | Fuels | Vehicles | Fleets | Incentives & Laws | Data, Analysis & Trends | Information Resources | Home

**Basic Station Search** | **Map a Route** | **Advanced Options**



Alternative Fueling Station Locator

[Printable Version](#) | [Help](#)

**First: Select one or more fuels.**

- Biodiesel (B20 and above)
- Compressed Natural Gas
- Electric
- Ethanol (E85)
- Hydrogen
- Liquefied Natural Gas (LNG)
- Liquefied Petroleum Gas (Propane)

**Second: Enter a complete address or zip code.**

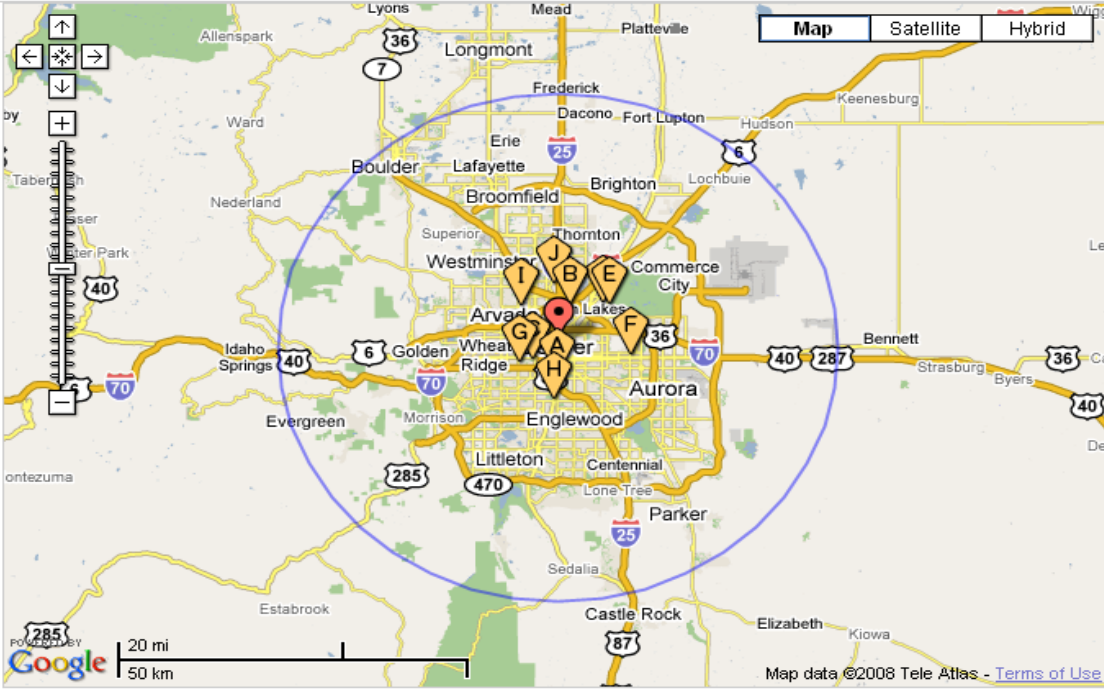
denver, co

Show stations within a  mile radius.

Note: For a state search, use [Advanced Options](#).

Results 1 - 10 of 22 near denver, co

- A U-Haul** 2645 W Alameda Avenue, Denver, CO 80219  
Public - see hours  
Phone: 303-922-8225  
Fuel: Liquefied Petroleum Gas  
Distance: 3 miles
- B Metrogas Incorporated** 790 W 64th Avenue, Denver, CO 80221  
Public - see hours  
Phone: 303-428-3036  
Fuel: Liquefied Petroleum Gas  
Distance: 4 miles
- C Suburban Propane** 5725 W 11th Avenue, Lakewood, CO 80214  
Public - see hours  
Phone: 303-232-1273  
Fuel: Liquefied Petroleum Gas  
Distance: 4 miles



Map | Satellite | Hybrid

Map data ©2008 Tele Atlas - [Terms of Use](#)

# AFDC Information – Station Infrastructure

- Are you thinking about installing onsite alternative refueling infrastructure?
  - Visit the Alternative Fueling Stations section ([www.eere.energy.gov/afdc/fuels/stations.html](http://www.eere.energy.gov/afdc/fuels/stations.html)) and scroll to the bottom of the page.
  - There you'll find links to information on infrastructure development, including production, distribution, training, funding, and experiences



The screenshot shows the website interface for the Alternative Fuels & Advanced Vehicles Data Center. The main navigation bar includes links for 'About the AFDC', 'Fuels', 'Vehicles', 'Fleets', 'Incentives & Laws', 'Data, Analysis & Trends', 'Information Resources', and 'Home'. The current page is titled 'Alternative & Advanced Fuels' and features a sidebar with a list of fuel types: Biodiesel, Ethanol, Hydrogen, Methanol, Natural Gas, Propane, and Emerging Fuels. The 'Propane' section is expanded, showing sub-links for 'Basics', 'Stations', 'Locations', 'Infrastructure Development', 'Incentives & Laws', 'Publications', and 'Related Links'. The main content area displays the 'Propane Infrastructure Development' article, which includes an introduction, a 'Getting Started' section, and a photograph of a propane refueling station with a vehicle. A red arrow points from the 'Propane' link in the sidebar to the article title.

**Alternative Fuels & Advanced Vehicles Data Center**

About the AFDC | Fuels | Vehicles | Fleets | Incentives & Laws | Data, Analysis & Trends | Information Resources | Home

## Alternative & Advanced Fuels

Search Help | More Search

Printable Version

Site Map  
EERE Information Center

**Biodiesel**

**Ethanol**

**Hydrogen**

**Methanol**

**Natural Gas**

**Propane**

- Basics
- Stations
- Locations
- Infrastructure Development

**Incentives & Laws**

**Publications**

**Related Links**

**Ultra-low Sulfur Diesel**

**Emerging Fuels**

**Propane Infrastructure Development**

There is much to consider when building propane (also known as liquefied petroleum gas or LPG) fueling infrastructure. This page provides resources to help you start.

**Getting Started**

Availability of infrastructure is the driving force behind acceptance of any fuel. Fleets depend on being able to locate fuel within a reasonable distance at a competitive price. States with abundant propane resources can offer a sound business case for installing propane infrastructure to service their fleets. The City of Austin, Texas, for example, operates a fleet of more than 200 F150 propane trucks that fuel at the city's six fueling yards. Surrounding Travis County operates 80 propane F150 trucks. In addition, the Texas State Highway Department

Propane refueling station and vehicle

# AFDC Information – Incentives and Laws

- State and Federal Incentives and Laws
  - Points of contact
  - By state
  - By type
  - By fuel
  - By user

**Alternative & Advanced Fuels**

[Printable Version](#)

**Propane Incentives and Laws**

Many federal and state incentives encourage use of propane (also known as liquefied petroleum gas or LPG) as an alternative fuel. Select a state below to view propane-related incentives and laws in that state. The legend signifies the number of incentives and laws available in each state using a color code. To search for federal incentives and laws, go to the [Federal Propane \(LPG\) Incentives and Laws](#) section. Or search for incentives and laws for other fuel types and advanced vehicles by going to the main [Incentives and Laws](#) section of this site.

Learn about our data collection methodologies. ▶

Map showing states color-coded by the number of incentives and laws available:

- WA (Orange)
- OR (Yellow)
- MT (Yellow)
- ND (Yellow)
- MN (Yellow)
- WI (Orange)
- MI (Yellow)
- IA (Yellow)
- SD (Yellow)
- WY (Grey)
- VT (Yellow)
- NH (Yellow)
- ME (Yellow)
- NY (Orange)
- PA (Orange)
- CT (Yellow)
- MA (Yellow)

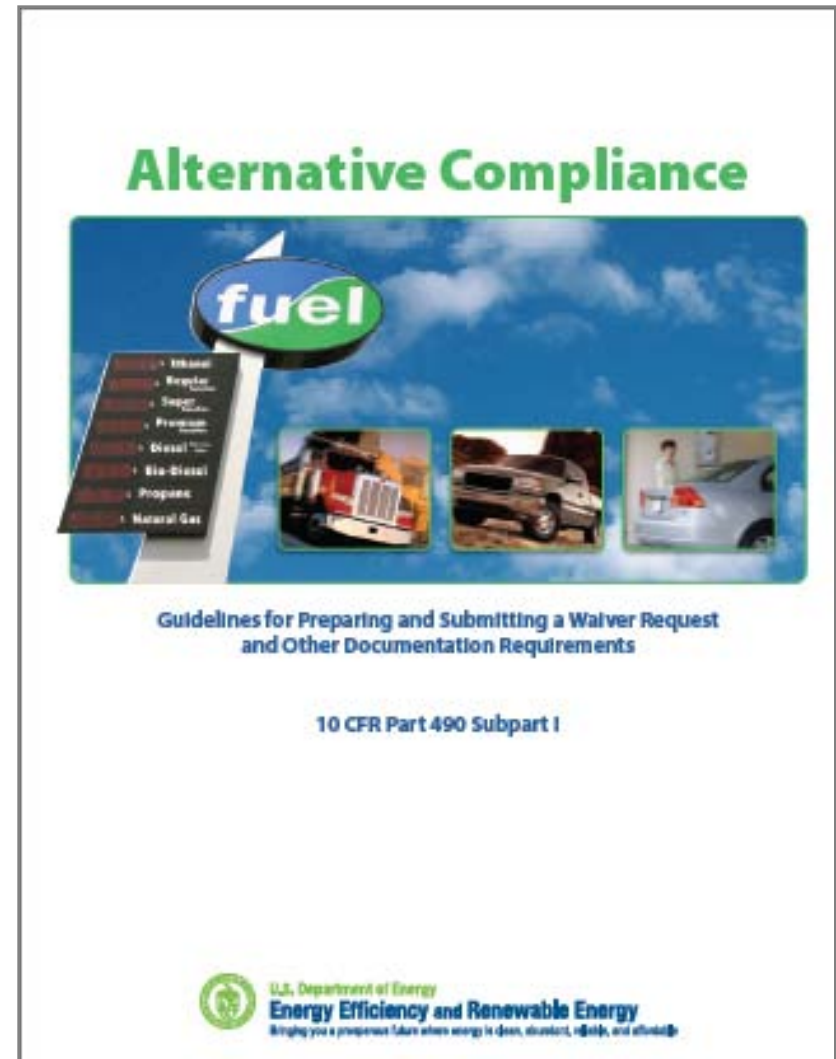
# EPAct Vehicle Programs

## Energy Policy Act (EPAct) of 1992

- Mandatory Component
  - Implementing federal regulations and executive orders affecting covered federal, state, and alternate fuel provider fleets
  - Generally
    - Vehicle acquisition for state fleets
    - Vehicles acquisition and required alternative fuel use for alternative fuel providers
    - Vehicles acquisition, petroleum reduction, and required alternative fuel use for fed fleets
  - EPAct amendments (EPAct 2005)
    - Allowed for new Alternative Compliance option for state and alternative fuel provider fleets
- Voluntary Component
  - Clean Cities, U.S. Department of Energy (DOE)
    - A voluntary, locally-based government/industry partnership
    - Established in 1993 in response to EPAct 1992
- Viewed as Companion Programs

# EPA Act 2005 – Alternative Compliance (AC)

- Option for state and alternative fuel provider fleets covered under DOE's Alternative Fuel Transportation Program (10 CFR Pt 490)
- Petroleum reduction in lieu of acquiring AFVs under the Standard Compliance requirements (i.e., vehicle acquisition)
- Covered, interested fleets must file with DOE an Intent to Apply for a Waiver and a Waiver Application



# Developing a Petroleum Reduction Plan Under AC

- DOE developed the Alternative Compliance Planning Tool to help fleets calculate their petroleum reduction requirement
- Helps state fleets to design custom strategies to reduce petroleum use
- Tool is currently open only to regulated fleets under AC
- URL: [www.eere.energy.gov/vehiclesandfuels/epact/state/acp\\_tool](http://www.eere.energy.gov/vehiclesandfuels/epact/state/acp_tool)



The screenshot shows the 'Alternative Compliance Planning Tool' website. At the top, there is a green banner with the text 'Vehicle Technologies Program'. Below this is a blue banner with the text 'Energy Policy Act (EPAAct)' and a background image of cars. A dark blue navigation bar contains a 'Help' link. The main content area is divided into two columns. The left column features the title 'Alternative Compliance Planning Tool' in red, followed by a paragraph explaining the tool's purpose: 'Alternative Compliance allows state and alternative fuel provider fleets to reduce petroleum consumption in lieu meeting the alternative fuel vehicle acquisition requirements of 10 CFR Part 490. This tool helps fleets determine their petroleum reduction requirement and create a plan for meeting it. Users can choose from the following methods to meet their requirement.' Below this is a list of methods: Alternative Fuels, Hybrid Electric Vehicles, Fuel Blends, Fuel Economy, Vehicle Miles Traveled Reduction, Truck Stop Electrification, Idling Time Reduction, and Onboard Idle Reduction. At the bottom of the left column, there is a link to 'Guidance'. The right column contains a login form with the text 'To get started, log in using the ID and password issued for Standard Compliance reporting.' It includes fields for 'User Name:' and 'Password:', a 'Log In' button, and a link for 'Remind me of my User Name/Password'.

**Vehicle Technologies Program**

**Energy Policy Act (EPAAct)**

◀ Help

### Alternative Compliance Planning Tool

Alternative Compliance allows state and alternative fuel provider fleets to reduce petroleum consumption in lieu meeting the alternative fuel vehicle acquisition requirements of 10 CFR Part 490. This tool helps fleets determine their petroleum reduction requirement and create a plan for meeting it. Users can choose from the following methods to meet their requirement.

- Alternative Fuels
- Hybrid Electric Vehicles
- Fuel Blends
- Fuel Economy
- Vehicle Miles Traveled Reduction
- Truck Stop Electrification
- Idling Time Reduction
- Onboard Idle Reduction

For more information on Alternative Compliance, read the [Guidance](#).

To get started, log in using the ID and password issued for Standard Compliance reporting.

User Name:

Password:

Log In

[Remind me of my User Name/Password](#)

# Petroleum REduction Planning (PREP) Tool

- Tool originally designed as the Alternative Compliance Planning Tool to help certain state and alternative fuel provider fleets
- PREP Tool helps other fleets and consumers determine petroleum reduction goals and create a plans for meeting them
- URL: [www.afdc.energy.gov/afdc/prep/index.php](http://www.afdc.energy.gov/afdc/prep/index.php)

## Alternative Fuels & Advanced Vehicles Data Center

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

[Help](#) [Methodology](#)

### Petroleum Reduction Planning Tool

The Petroleum Reduction Planning tool helps fleets, consumers, and business owners create a strategy to reduce conventional fuel use in fleet and personal vehicles. This interactive tool allows users to evaluate and calculate petroleum reductions by choosing one or a combination of the following methods:

- Alternative Fuels
- Hybrid Electric Vehicles
- Biodiesel Blends
- Fuel Economy
- Vehicle Miles Traveled Reduction
- Truck Stop Electrification
- Idling Time Reduction
- Onboard Idle Reduction

### Get Started

**Guest User:** No password is required. Full planning functionality is provided but scenarios cannot be saved.

**Registered User:** Create and save one or more scenarios, which can be accessed for editing and analysis.

User Email:

Password:

[Log In](#)

**Register Now:** Registering allows users to create, save, and edit scenarios for further analysis.



# PREP Tool – Function and Utility

- Helps sort strategies for petroleum use reduction
  - Alternative fuels
  - Hybrid electric vehicles
  - Fuel blends
  - Fuel economy
  - Vehicle miles traveled reduction
  - Truck stop electrification
  - Idling time reduction
  - Onboard idle reduction
- Graphical representation of petroleum use reductions and how each technology strategy contributes

# PREP Tool – Step 1

## Step 1 – Setting a Petroleum Reduction Goal

- Optional

[Help](#) [Methodology](#) [Log In](#)

### Petroleum Reduction Planning Tool

Welcome: [ted\\_sears@nrel.gov](#)

As a registered user you can create a new scenario or edit any saved scenarios that are included in the list on the right.

Create a New Scenario

potomac

---

#### Step 1: Set a Petroleum Reduction Goal

To begin, enter your annual petroleum usage in gasoline gallon equivalents ([GGEs](#)):

GGEs

Next enter the percentage of your annual petroleum usage that you would like to reduce:

%

---

Based on your input, your petroleum reduction goal is:  GGEs

[Set This Goal and Proceed to Step 2](#)

# PREP Tool – Step 2

## Step 2 – Selecting Reduction Strategies

### Alternative Fuels & Advanced Vehicles Data Center

About the AFDC | Fuels | Vehicles | Fleets | Incentives & Laws | Data, Analysis & Trends | Information Resources | Home

Help ▶ Methodology ▶ Log In Step 1

## Petroleum Reduction Planning Tool

Step 2: Create Your Petroleum Reduction Scenario

To calculate the petroleum reduction potential of [Idling Time Reduction](#), fill in the boxes below using your [actual historical fleet data](#). Default values based on nationwide statistics are provided; however, since your own fleet operations can vary considerably from these averages, we strongly recommend you use fleet-specific data.

Alternative Fuels | HEVs | Biodiesel Blends | Fuel Economy | **VMT Reduction** | Truck Stop Electrification | Idling Time Reduction | Onboard IR

### Idling Time Reduction

Help ▶

Number of Vehicles*	Vehicle Type*	Fuel Type*	Minutes per Day*	Days per Year	Fuel Used (gal/hr)
<input type="text"/>	<input type="text" value="Pick from list"/>	<input type="text" value="Pick from List"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

\* Required

Save Inputs ▶

Generate Plan ▶

### Results

Welcome ted\_sears@nrel.gov  
Scenario Name: potomac

Annual Petroleum Reduction Goal:  
**1000 GGE**

Goal = 1,000 GGE

-----	900
-----	750
-----	600
-----	450
-----	300
-----	150

# PREP Tool – Step 2 Continued

## Alternative Fuels & Advanced Vehicles Data Center

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

[Help](#) ▶ | 
 [Methodology](#) ▶ | 
 [Log In](#) | 
 [Step 1](#)

### Petroleum Reduction Planning Tool

Step 2: Create Your Petroleum Reduction Scenario

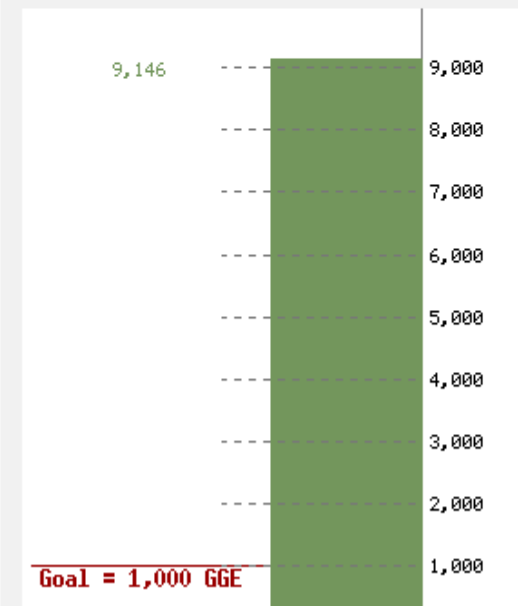
To calculate the petroleum reduction potential of [Alternative Fuels](#), fill in the boxes below using your [actual historical fleet data](#). Default values based on nationwide statistics are provided; however, since your own fleet operations can vary considerably from these averages, we strongly recommend you use fleet-specific data.

Alternative Fuels	HEVs	Biodiesel Blends	Fuel Economy	VMT Reduction	Truck Stop Electrification	Idling Time Reduction	Onboard IR
<b>Alternative Fuels</b> <a href="#">Help</a> ▶							
AFV Type*	AFV Fuel*	Number of AFVs*	Average VMT	Fuel Economy (mpg)	Fraction of Fuel Use*		
<input type="text" value="Pick from list"/>	<input type="text" value="Pick from list"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="button" value="Save Inputs"/>	
AFV Type*	AFV Fuel*	Number of AFVs*	Average VMT	Fuel Economy (mpg)	Fraction of Fuel Use*		
<input type="text" value="Midsize Car"/>	<input type="text" value="LPG"/>	<input type="text" value="15"/>	<input type="text" value="15000"/>	<input type="text" value="24.6"/>	<input type="text" value="1"/>		
Delete: <input type="checkbox"/>		<b>GGE Reduced: 9,146</b>					

### Results

Welcome [ted\\_sears@nrel.gov](mailto:ted_sears@nrel.gov)  
Scenario Name: potomac

**Annual Petroleum Reduction Goal:**  
**1000 GGE**



# PREP Tool – Step 2 Continued

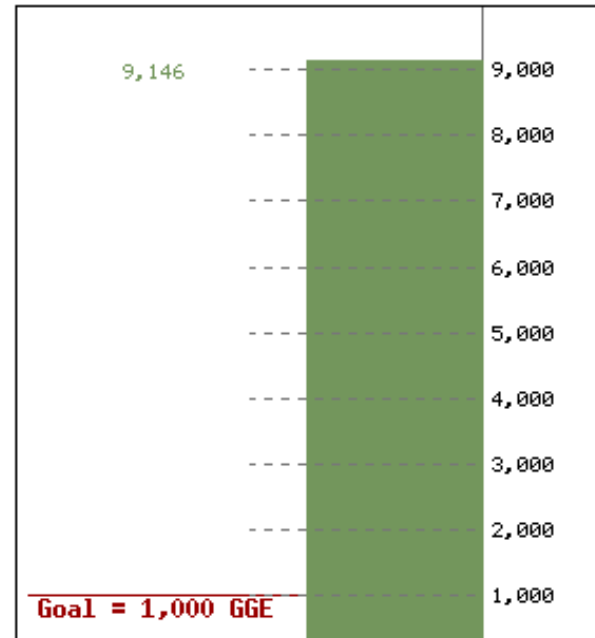
- The Plan

## Petroleum Reduction Plan

Scenario Name:potomac  
 Annual Petroleum Reduction  
 Goal:1000 GGE

Based on your inputs, this is your petroleum reduction goal and associated plan. You may print the information on this page and use it to help you reach your goal. If you are a registered user, this scenario is saved in the system and you may make changes at a future time.

To alter your plan, return to [Step 2](#).



## Alternative Fuels

AFV Type	AFV Fuel	Number of AFVs	Average VMT	Fuel Economy (mpg)	Fraction of Fuel Use	GGE Reduced
Midsize Car	LPG	15	15000	24.6	1	9146
<b>TOTAL GGE</b>						<b>9146</b>

**Total GGE Reduced: 9,146**

## Petroleum Marketing

November 12, 2008

SAVE | EMAIL | PRINT | MOST POPULAR | RSS | REPRINTS

### ConocoPhillips, CleanFUEL USA Launch Propane Fueling Initiative



GEORGETOWN, Texas -- CleanFUELUSA and ConocoPhillips signed a three-year agreement to advance the propane infrastructure for the U.S. transportation fuel industry, which calls for the two companies to provide resources to install and supply propane fuel pumps for commercial fleet fuel users.

Propane fueling stations will be installed at fleet owner sites and potentially nationwide at select ConocoPhillips' branded stations, including Conoco, Phillips 66 and 76 stations, the companies stated. ConocoPhillips will supply propane to the fueling stations through regional propane marketers.

"CleanFUEL USA is a leader in propane engine technology and the installation of alternative fuel infrastructure," Chris Conway, president Americas supply and trading for ConocoPhillips, said in a statement. "The company's expertise complements ConocoPhillips' strengths in propane supply and relationships with branded fuel marketers to ensure that we meet the market's growing need for propane. Through this collaboration our branded marketers can participate in expanding their fuel offering and providing a solution for this growing customer base."

Propane is an alternative fuel with lower greenhouse gas emissions than gasoline or diesel, according to the companies.

"This agreement with ConocoPhillips is a huge step forward for the U.S. propane engine fuel industry," Curtis Donaldson, CleanFUEL USA's founder and CEO, said in a statement. "With support from an energy company, the industry can start to overcome the infrastructure challenge that has once been a sticking point for fleet managers and automotive OEMs considering propane for its inherent advantages. We look forward to working with ConocoPhillips to expand the distribution of propane, leveraging its established infrastructure footprint."

#### Ads by Google

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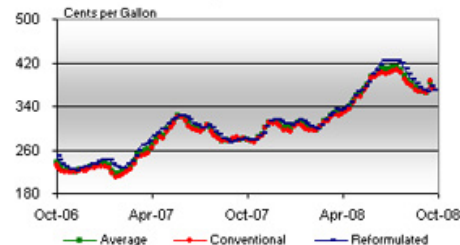
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## Petroleum Price Ticker

### U.S. Retail Regular Gasoline Prices



Source: Energy Information Administration

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# PREP Tool and AFDC Access

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- Future Plans for PREP
  - Greenhouse gas calculator
  - Other emissions of interest
- Important Links
  - PREP Tool  
[www.afdc.energy.gov/afdc/prep/index.php](http://www.afdc.energy.gov/afdc/prep/index.php)
  - AFDC  
[www.afdc.energy.gov/afdc/fuels/propane.html](http://www.afdc.energy.gov/afdc/fuels/propane.html)