

Los Angeles Clean Cities Web-Based Tools & Resources

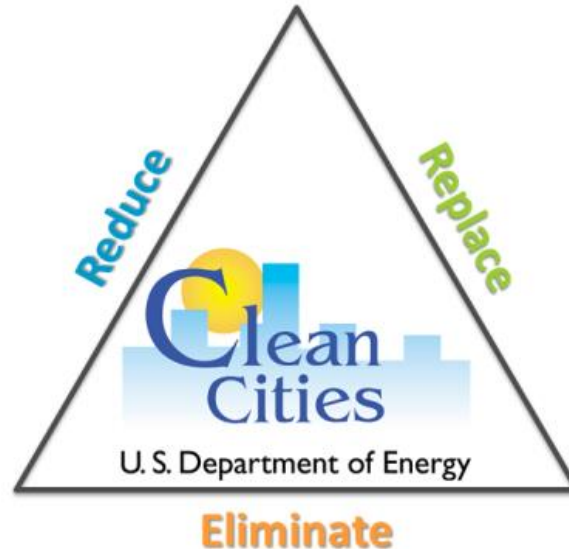
Amber Ceja

06.05.2019



About DOE Clean Cities

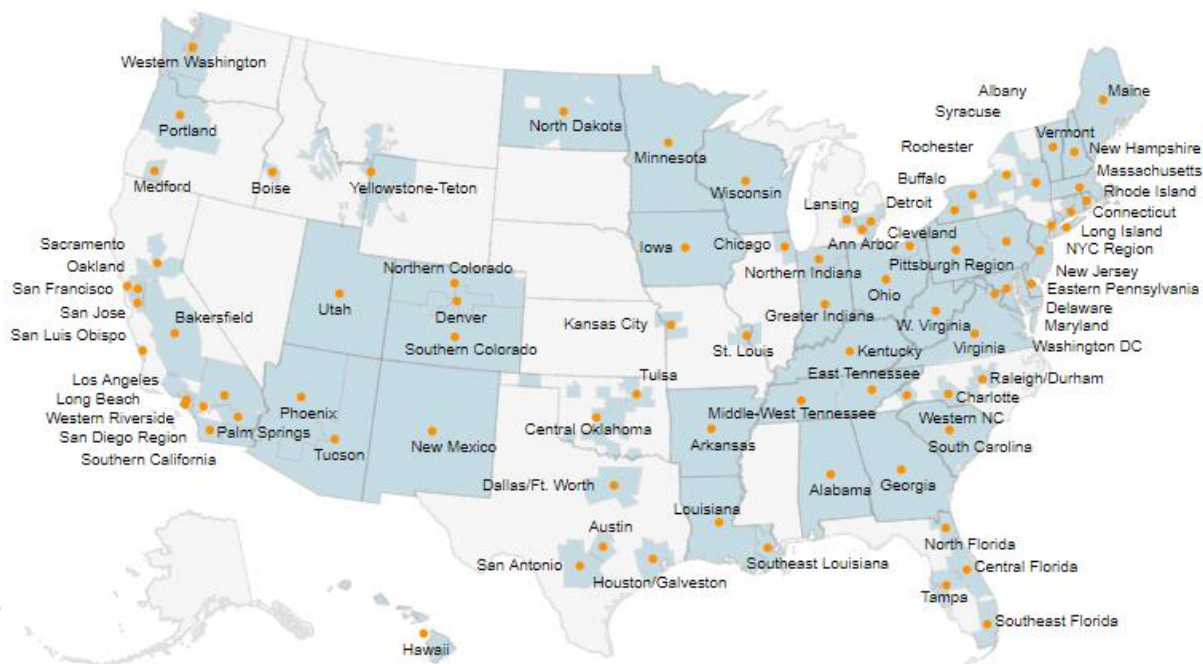
Created in 1993, the DOE's Clean Cities program advances the nation's economic, environmental, and energy security by supporting local actions to cut petroleum use in transportation. The program's activities are executed under the following strategies:



A National Network

DOE's Clean Cities is a national network of nearly 100 coalitions working to deploy alternative and renewable fuels, idle-reduction measures, fuel economy improvements, and emerging transportation technologies.

At the national level, the Clean Cities program develops and promotes partnerships, publications, **tools**, and other unique resources.



Los Angeles Clean Cities

LACCC's mission aims to advance the deployment of alternative fuel vehicles and advanced technology in the city government fleet.

STAKEHOLDERS:

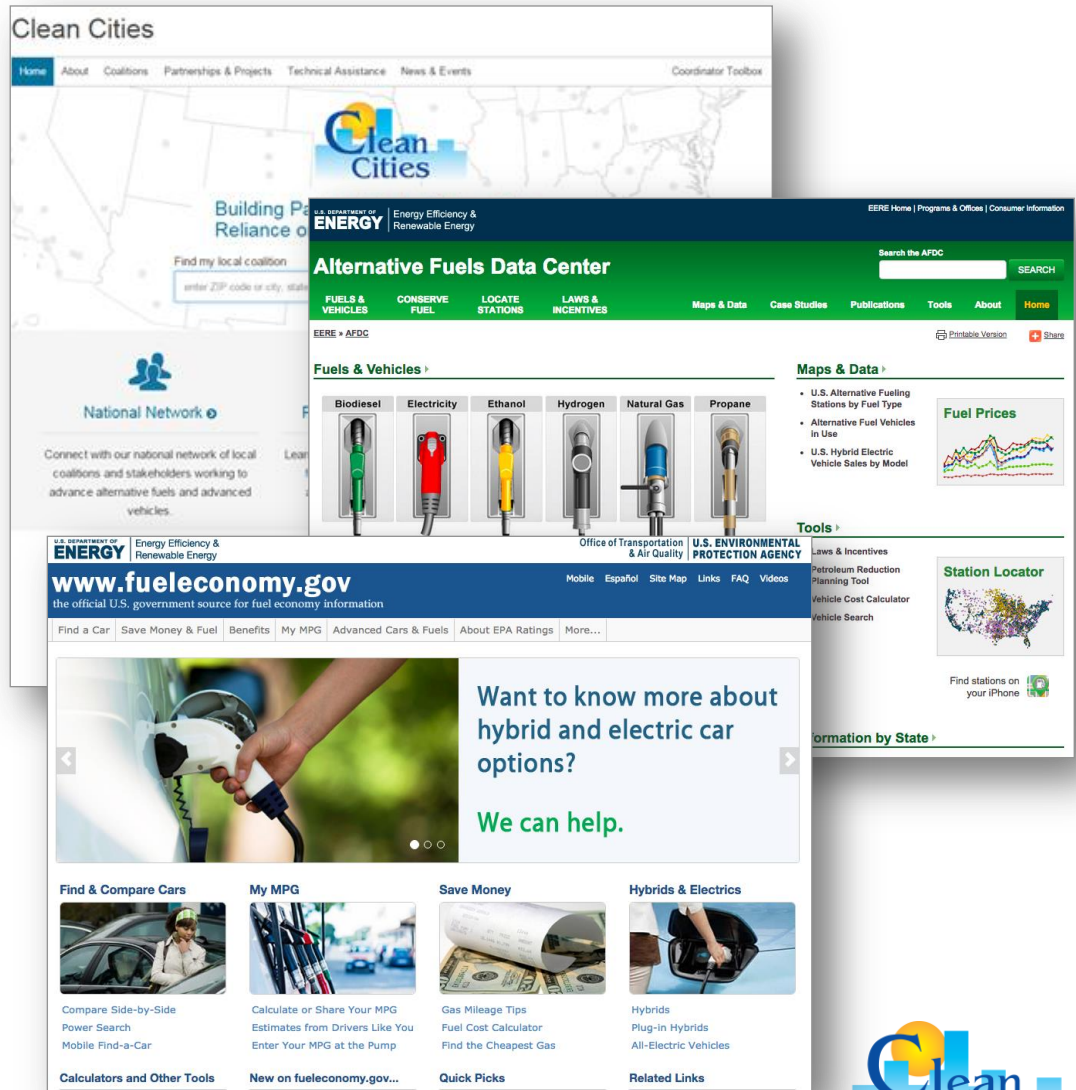
- All Los Angeles city departments

PROGRAM:

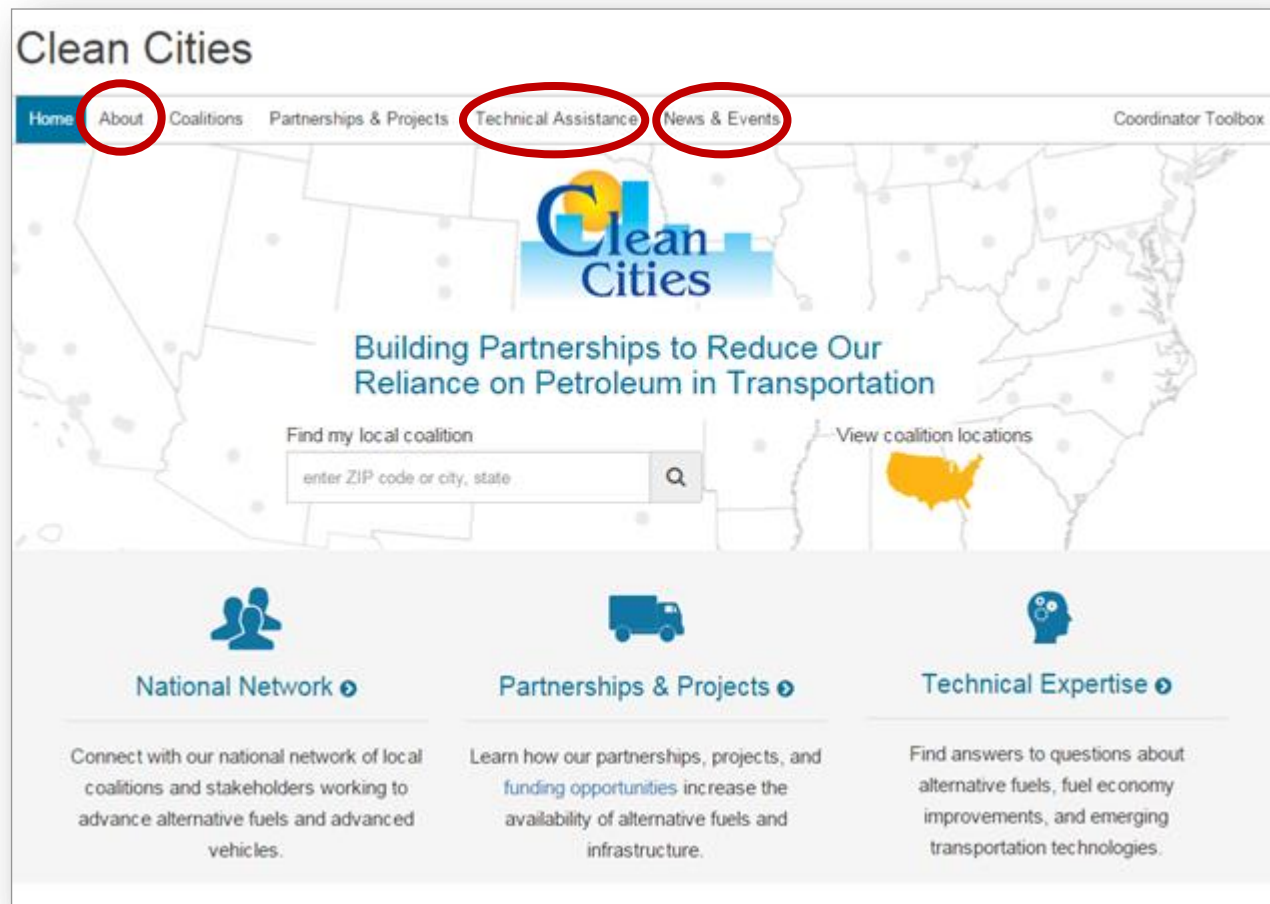
- Provide technical assistance and targeted outreach
- Raise awareness
- Advance vehicle technologies in order to foster understanding of alternative fuels
- Track and analyze growth and adoption of petroleum reduction technologies and practices
 - Track and analyze Greenhouse Gas emissions reductions

Topics

- **Clean Cities Website**
 - Information Resources
 - News.
- **Alternative Fuels Data Center**
 - Station Locator
 - Laws & Incentives
 - Maps & Data
 - Case Studies
 - Publications
 - Tools & Widgets
- **FuelEconomy.gov**
 - Find-A-Car tool



Clean Cities Website



cleancities.energy.gov

Clean Cities: Publications

Clean Cities

Home **About** Coalitions Partnerships & Projects Technical Assistance News & Events Coordinator Toolbox

Clean Cities » About » Publications

- Goals & Accomplishments
- Funding Opportunities
- Hall of Fame
- Publications**
- Working with Us
- Contacts

Clean Cities Publications

Find popular Clean Cities-branded publications about alternative fuels and vehicles, infrastructure development, emissions, and idle reduction.

Program

- Clean Cities 2014 Annual Metrics Report
- Clean Cities Now Vol. 19, No. 2
- Clean Cities Program Contacts
- Clean Cities Technical Assistance Project (Tiger Teams)
- Clean Cities: Building Partnerships to Cut Petroleum Use in Transportation

Fuels

- Biodiesel Basics
- Building a Business Case for Compressed Natural Gas in Fleet Applications
- Ethanol Basics
- Geography of Existing and Potential Alternative Fuel Markets in the United States
- Handbook for Handling, Storing, and Dispensing E85 and Other Ethanol-Gasoline Blends
- Natural Gas Basics
- Propane Basics
- Straight Vegetable Oil as a Diesel Fuel?

New Publications


- Clean Cities 2016 Vehicle Buyer's Guide
- Clean Cities Program Contacts
- Clean Cities Technical Assistance Project (Tiger Teams)

Additional Resources

Find hundreds of publications about alternative fuels and vehicles on the Alternative Fuels Data Center.

For select publications in Spanish, see the [Spanish resources](#) on the Alternative Fuels Data Center.

For past issues of *Clean Cities*



Clean Cities: Technical Assistance and Toolkits


Clean Cities

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[Clean Cities » Technical Assistance](#) [Share](#)

Clean Cities Technical Assistance

Clean Cities connects transportation stakeholders with objective information and experts to assist with alternative fuels, fuel economy improvements, and emerging transportation technologies. Through these trusted, time-tested resources, Clean Cities has helped fleets and fuel providers deploy hundreds of thousands of alternative fuel vehicles and fueling stations that serve a growing market. The program continues to support the entry of new transportation technologies into the marketplace.



Find Data & Information

Use Clean Cities' comprehensive, data-driven collection of information.


[Alternative Fuels Data Center](#)

Get the facts about alternative fuels and vehicles:

- Find alternative fueling stations
- Check for incentives and laws
- Calculate petroleum use, cost of ownership and emissions.

[FuelEconomy.gov](#)

Use the official U.S. government source for fuel economy information to find and compare vehicles, calculate your own fuel economy, and get tips to cut fuel costs.




Ask a Question

The Clean Cities Technical Response Service representatives are seasoned experts who will help you find answers to technical questions about alternative fuels, fuel economy improvements, idle-reduction measures, advanced vehicles, and Clean Cities and related resources.

Email: [Technical Response Service](#)


Call: [800-254-6735](#)



Get Help on the Ground

Clean Cities Tiger Teams assist coalition coordinators, stakeholders, original equipment manufacturers, and fuel providers overcome obstacles to deploying alternative fuels and advanced vehicles and make informed choices to reduce their petroleum consumption.

Learn more about how to request technical assistance from Clean Cities Tiger Teams.



Educate with Toolkits

Clean Cities provides specialized toolkits to help educate and engage policymakers, fleet managers, drivers, and other decision makers using print products, templates, and presentations.



U.S. Department of Energy

Clean Cities: News

Clean Cities Blog

U.S. Department of Energy | Energy Efficiency & Renewable Energy

Increase in PEV Purchases Sparks Rise in Workplace Charging
July 24, 2015
With plug-in electric vehicles (PEVs) becoming more popular, employers are responding by installing charging stations on site.
[Read more >](#)

Clean Cities TV Hits Big Viewer Milestone
July 24, 2015
Videos about alternative-fuel transportation topics reach a new record of 100,000 views.
[Subscribe in a reader](#) [Share](#)

Feeling Pain at the Pump? Factors That Affect Fuel Prices
July 20, 2015
When gasoline and diesel prices go up, it's often due to numerous and complex factors.
[Read more >](#)

Ready or Not, He Fuel Cell Electric
June 22, 2015

EPA Proposes New Volume Requirements for Renewable Fuel Standard

Alternative Fueling Station Past 20,000

CleanCitiesTV
U.S. Department of Energy

Clean Cities - Partnerships to Cut Petroleum Use in Transportation
2,785 views 2 years ago
The U.S. Department of Energy's Clean Cities program advances the nation's economic, environmental, and energy security by supporting local actions to cut petroleum use in transportation. A national network of nearly 100 Clean Cities coalitions brings together stakeholders in the public and private sectors to deploy alternative and renewable fuels, idle-reduction...

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Current News and Events
Find the latest news, events, webinars, blog posts, and videos about alternative Clean Cities program.

Search news and events

Upcoming Events

Webinar
Annual Report Webinar
FOR COORDINATORS ONLY
Dec. 10, 2015 | 1:00 p.m. – 2:00 p.m. ET
[Add to calendar](#) [More Webinars](#)

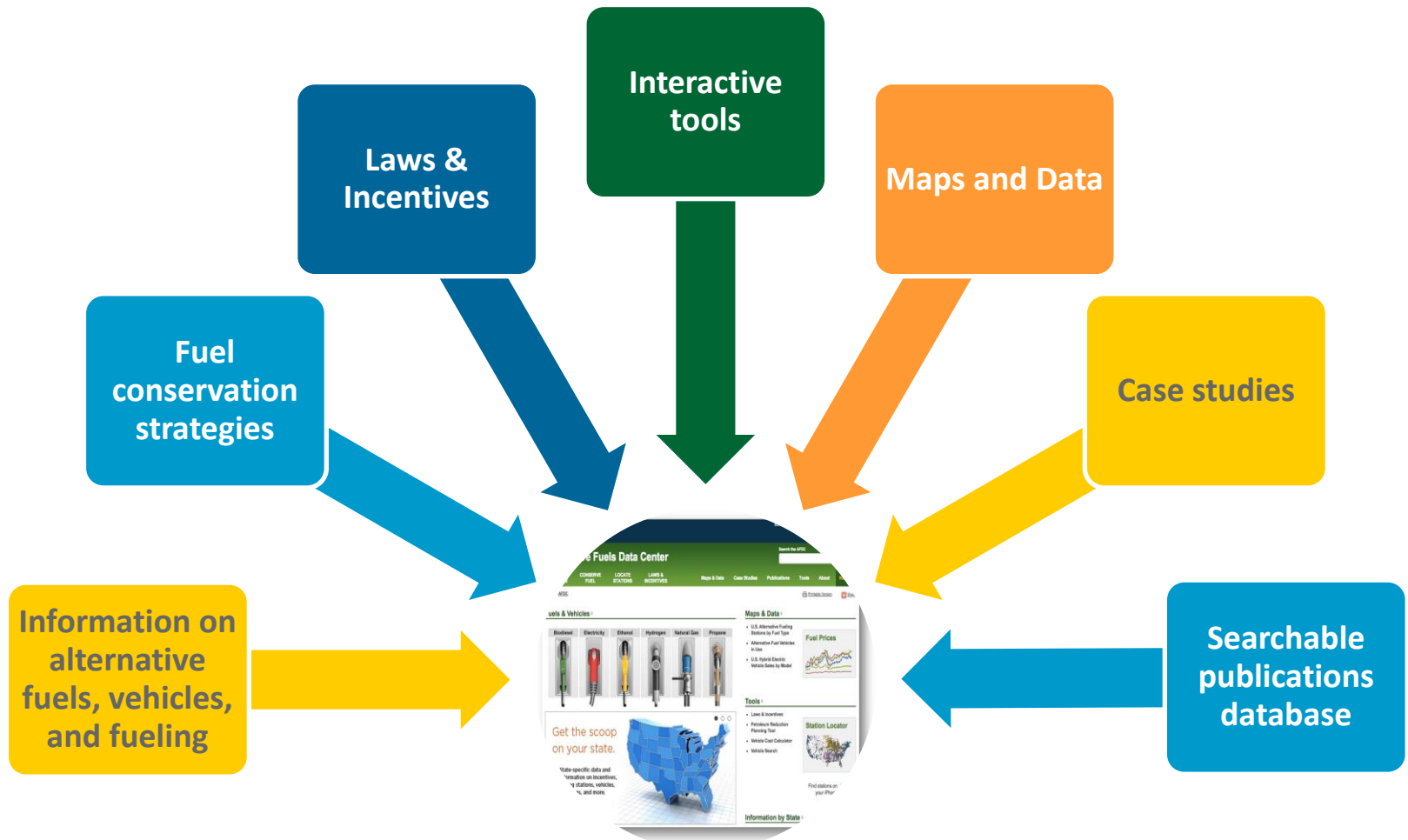
Event
The Work Truck Show
March 1, 2016 @ 7:00 a.m. – March 4, 2016 @ 12:00 p.m.
Indianapolis, Ind.
[Add to calendar](#) [More Events](#)

Blog Post
U.S. Department of Transportation to Expand Electric Vehicle Charging for Employees
Dec. 2, 2015
[More Blog Posts](#)

Blog Post
Innovative Finance Strategies Summarized in Two New Guides
Nov. 24, 2015
[More Blog Posts](#)

Video
EV Charging Station Boosts Economic and Clean Energy Goals
Nov. 23, 2015

Alternative Fuels Data Center (AFDC)



<https://afdc.energy.gov/>

AFDC: Fuels & Vehicles

U.S. DEPARTMENT OF
ENERGY

Energy Efficiency &
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Alternative Fuels Data Center

Search the AFDC

SEARCH

FUELS & VEHICLES

CONSERVE FUEL

LOCATE STATIONS

LAWS & INCENTIVES

EERE » AFDC » Fuels & Vehicles » Natural Gas

Natural Gas Basics

Benefits & Considerations


Stations

Vehicles


Laws & Incentives

Natural Gas


Natural gas, a domestically produced gaseous fuel, is a key component of the nation's energy infrastructure. Whether produced via conventional or alternative fuel must be compressed or liquefied for use in vehicles.

 **Basics** ▶


Find information about natural gas, including its production, use, and safety.

 **Benefits and Considerations** ▶


Explore the benefits and considerations of natural gas as a vehicle fuel.

 **Stations** ▶

Locate natural gas fueling stations in your area.

 **Vehicles** ▶


Learn about natural gas vehicles and their safety.

 **Laws and Incentives** ▶

Find natural gas laws and incentives in your area.

Natural Gas Vehicles

Natural gas powers about 150,000 vehicles in the United States and roughly 15.2 million vehicles worldwide. Natural gas vehicles (NGVs), which can run on compressed natural gas (CNG), are good choices for high-mileage, centrally fueled fleets that operate within a limited area. For vehicles needing to travel long distances, liquefied natural gas (LNG) is a good choice. The advantages of natural gas as a transportation fuel include its domestic availability, widespread distribution infrastructure, low cost, and inherently clean-burning qualities.

 **Related Information**

Availability

Conversions

Emissions

Incentives & Laws

CNG and LNG are considered alternative fuels under the Energy Policy Act of 1992. The horsepower, acceleration, and cruise speed of NGVs are comparable with those of equivalent conventional vehicles. Also, compared with conventional diesel and gasoline vehicles, NGVs can produce some emissions benefits.

There are many heavy-duty natural gas vehicles—as well as a growing number of light-duty NGVs—available from original equipment manufacturers. Qualified system retrofitters can also economically, safely, and reliably convert many vehicles for natural gas operation.

Types of Natural Gas Vehicles


There are three types of NGVs:


+ Maps & Data

+ Case Studies

+ Publications

- Tools

 Vehicle Cost Calculator


 Vehicle Search

Natural Gas Calculator

Enter mileage to compare emissions.

Natural Gas Vehicle

27 City 38 Highway


U.S. Department of Energy

11

AFDC: Alternative Fueling Station Locator

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

Alternative Fuels Data Center

[FUELS & VEHICLES](#) [CONSERVE FUEL](#) **[LOCATE STATIONS](#)** [LAWS & INCENTIVES](#) [Maps & Data](#) [Case Studies](#)

[EERE](#) » [AFDC](#) » [Locate Stations](#)

Alternative Fueling Station Locator

Find alternative fueling stations near an address or ZIP code or along a route in the United States. Enter a state to see a

[Find Stations](#) [Plan a Route](#)

[Go](#)

[All Fuels](#) [more search options](#)

Alternative fuel stations near Chicago, IL

Excluding private stations

INTERPARK
318 S Federal St
Chicago, IL 60604
Phone: 888-758-4389
Fuel: Electric
Electric charging types: Level 1, Level 2
Distance: 0.05 mi

INTERPARK
17 E Adams St
Chicago, IL 60603
Phone: 888-758-4389
Fuel: Electric

[Go to mobile version](#)
[Download iPhone app](#)

INTERPARK

318 S Federal St
Chicago, IL 60604
888-758-4389

[Directions](#) | [Find Nearby Stations](#)

Access: Public
Hours: 24 hours daily
Notes: SOUTH LOOP 2; South Loop Self-Park Garage
www.InterParkGreen.com
SOUTH LOOP 1; South Loop Self-Park Garage
www.InterParkGreen.com

Fuel Available

Electric Vehicle Charging

Electric charging network: [ChargePoint Network](#)
Level 1 outlets: 2
Level 2 outlets: 2
Connector types: NEMA 5-20, J1772

Last confirmed: July 2015

Location details are subject to change. We recommend calling the stations to verify location, hours of operation, and access.

[Report a change](#)

All locations are approximate

Map data ©2015 Google [Terms of Use](#)

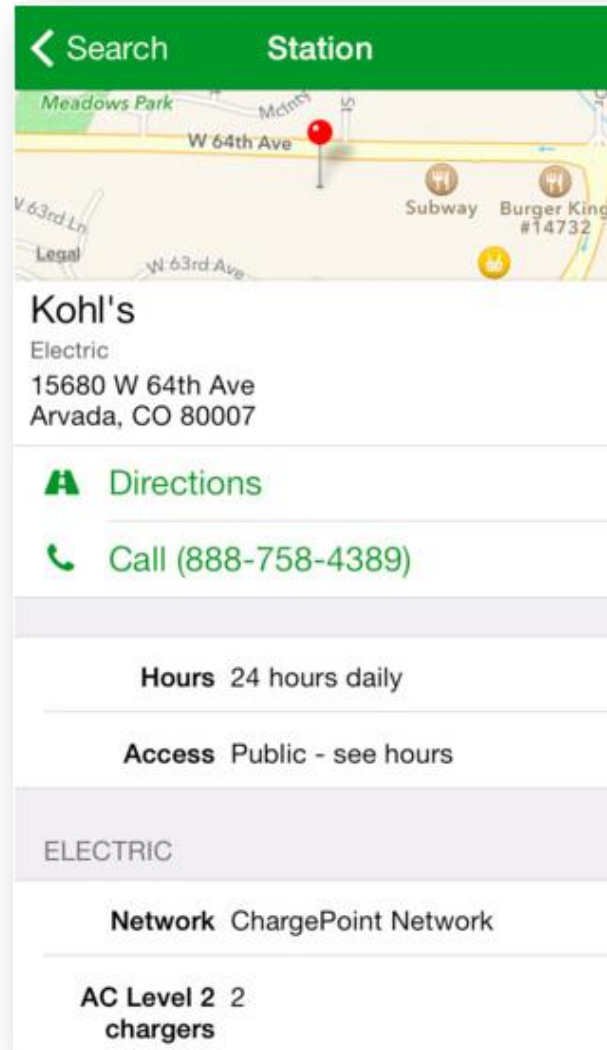
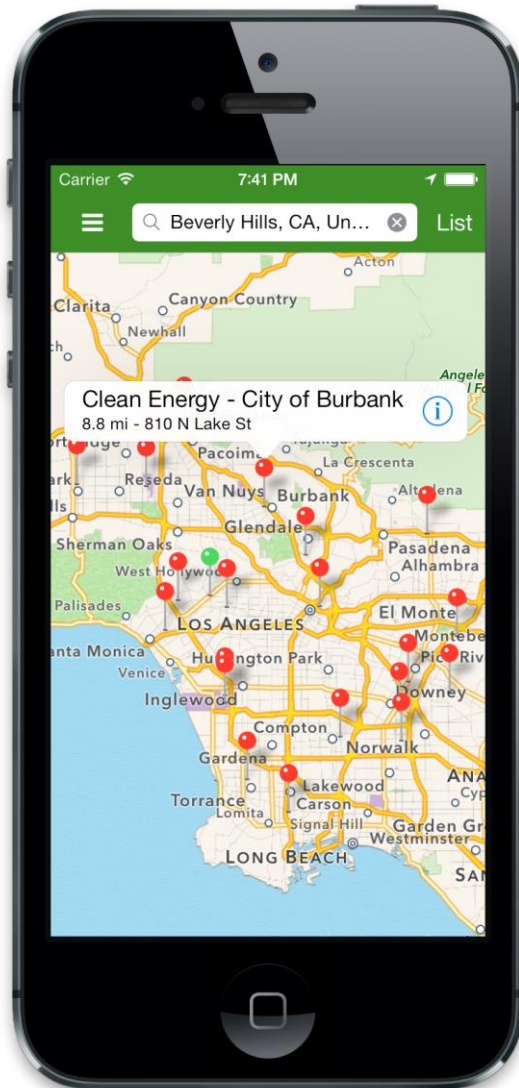
[Download Data](#) [Developer APIs](#)

Data last updated: 08/06/2015



U.S. Department of Energy

AFDC: Alternative Fueling Station Locator Mobile App



AFDC: Laws & Incentives

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Alternative Fuels Data Center

FUELS & VEHICLES **CONSERVE FUEL** **LOCATE STATIONS** **LAWS & INCENTIVES** **Maps & Data** **Calendar**

EERE » AFDC » Laws & Incentives





Search
Federal
State
Local Examples
Summary Tables

Federal and State Laws and Incentives

Find federal and state laws and incentives for alternative fuels and vehicles, alternative fuel efficiency, and other transportation-related topics.

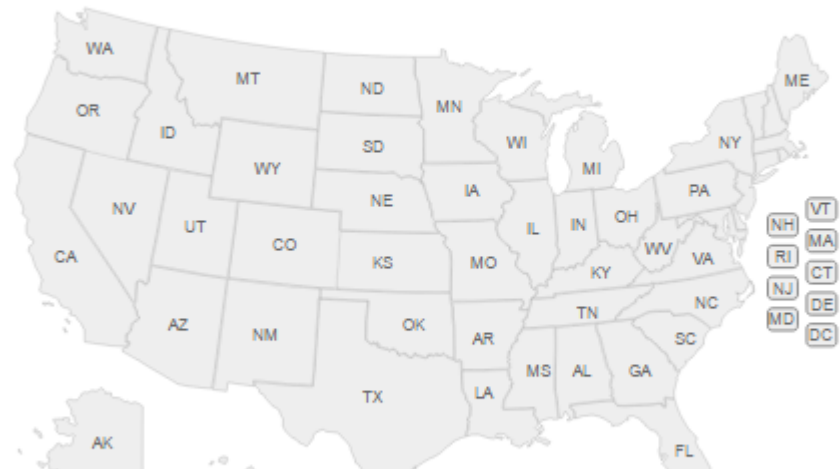
Federal
laws and incentives

State
laws and incentives
Select a State

-  **Search All Laws and Incentives**
Use an advanced or keyword search to find a specific federal or state law or incentive.
-  **View Tables of Laws and Incentives**
View laws and incentives sorted by [technology/fuel](#), [incentive](#), [regulation](#), or [user](#).
-  **Read Key Legislation**
Read selected legislation summaries about alternative transportation technologies.
-  **Find Local Laws and Incentives**
Find examples of laws and incentives from local governments.

State Laws and Incentives

To view a state's laws and incentives related to alternative fuels and advanced vehicles, select a state from the map or list below. See a list of the [most recent updates to state laws and incentives](#).



**Download laws
and incentives using the
“Download Data” link**

Search Laws & Incentives

Alternative Fuels Data Center

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Search

Federal

State

Local Examples

Summary Tables

Search Federal and State Laws and Incentives

Search incentives and laws related to alternative fuels and advanced vehicles. Choose one or more jurisdictions to start your search. Select additional options to narrow your search.

Category

Keyword

Jurisdiction	Technology/Fuel	Incentive/Regulation	User
<input type="checkbox"/> All	<input type="checkbox"/> All	<input type="checkbox"/> All	<input type="checkbox"/> All
<input type="checkbox"/> Federal	<input type="checkbox"/> Biodiesel	<input type="checkbox"/> Acquisition or Fuel Use	<input type="checkbox"/> Vehicle Owner or Driver
<input type="checkbox"/> Alabama	<input type="checkbox"/> Ethanol	<input type="checkbox"/> Grants	<input type="checkbox"/> Fleet Purchaser or Manager
<input type="checkbox"/> Alaska	<input type="checkbox"/> Natural Gas	<input type="checkbox"/> Driving or Idling	<input type="checkbox"/> Fueling or TSE Infrastructure Owner
<input type="checkbox"/> Arizona	<input type="checkbox"/> Propane (LPG)	<input type="checkbox"/> Tax Incentives	<input type="checkbox"/> Alternative Fuel
<input type="checkbox"/> Arkansas	<input type="checkbox"/> Hydrogen Fuel Cells	<input type="checkbox"/> Registration or Licensing	
<input type="checkbox"/> California	<input type="checkbox"/> EVs		

[ABOUT THE DATA](#)

[Download Data](#)

[Data Fields](#)

[Developer API](#)



U.S. Department of Energy

Utilizing Incentives



	2019 Nissan Leaf EV	2019 Kia Soul EV
Starting MSRP	\$29,990	\$33,950
Federal PEV Tax Credit	- \$7,500	- \$7,500
CA PEV Rebate	- \$2,500	- \$2,500
CA Single occupancy (HOV)	✓	✓
SCE Clean Fuel Reward Program	- \$1,000	- \$1,000
Total:	\$18,990	\$22,950

PLUS:

LADWP Charger Install Rebate	- \$500	- \$500
SCAQMD Residential EV Charging Incentive Pilot Program	- \$250	- \$250

AFDC: Maps & Data

Alternative Fuels Data Center

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Maps and Data

Find maps and charts showing transportation data and trends related to alternative fuels and vehicles.

BROWSE BY CATEGORY **OR** **GO**

Sort by: ☒ Category ☐ Most Recent ☐ Most Popular 134 results

Vehicles: AFVs and HEVs

AFV Acquisitions by Regulated Fleets (by Fleet Type)
Trend of S&FP AFV acquisitions by fleet type from 1992-2013
Last update August 2014

[View Graph](#)
[Download Data](#)

AFV Acquisitions by Regulated Fleets (by Fuel Type)
Trend of S&FP AFV acquisitions by fuel type from 1992-2013
Last update August 2014

[View Graph](#)
[Download Data](#)

AFV and HEV Model Offerings, By Manufacturer
Trend of AFV models produced by OEMs from 1991-2015
Last update June 2015

[View Graph](#)
[Download Data](#)

ARRA Electrification Projects

[View Map](#)

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Clean Cities
U.S. Department of Energy

AFDC: Case Studies

Alternative Fuels Data Center


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[EERE](#) » [AFDC](#) » Case Studies

Case Studies

Find case studies and success stories about alternative transportation technologies and alternative fuels.



Propane Fuel


Many organizations face the challenges of converting their fleets to propane, including a school district. They are finding that both goals.

[Learn More](#)

May 30, 2015

Los Angeles Public Works Fleet Converts to Natural Gas

Los Angeles Public Works Fleet Converts t...



Learn how Los Angeles, California, has converted its fleet of diesel-powered, solid waste collection vehicles to alternative fuels.

For information about this project, contact [Los Angeles Clean Cities Coalition](#).

[QuickTime \(.mov\)](#)
[Windows Media \(.wmv\)](#)
[Video Download Help](#)

[Text version](#)

See more videos provided by [Clean Cities TV](#) and [FuelEconomy.gov](#).

MotorWeek
Television's Original Automotive Magazine
Provided by Maryland Route 1

Category

Keyword

Choose one or more items from the following categories.

Fuel/Technology

- ☐ All Fuels
- ☐ Biodiesel
- ☐ Ethanol
- ☐ Hydrogen
- ☐ Propane
- ☐ Natural Gas

Applications

- ☐ All Applications
- ☐ Long-Haul Trucking
- ☐ Refuse Collection
- ☐ Taxi Services
- ☐ Airport
- ☐ Delivery Services

Search Results | 198 case studies

Date	Title	Type
June 6, 2015	Delaware Transit Corporation Adds Propane Buses to Its Fleet	Video
May 30, 2015	Los Angeles Public Works Fleet Converts to Natural Gas	Video
May 30, 2015	Yellowstone Park Recycles Vehicle Batteries for Solar Power	Video
May 16, 2015	Lancaster Co., Pennsylvania, Converts Trash to Energy	Video

AFDC: Publications

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Publications

Find publications about alternative transportation, including alternative fuels, advanced vehicles, and regulated fleets.

Keyword

Category

Choose one or more categories to search.

<input type="checkbox"/> Biodiesel	<input type="checkbox"/> All-Electric Vehicles	<input type="checkbox"/> Fuel Economy
<input type="checkbox"/> Electricity	<input type="checkbox"/> Plug-in Hybrid Electric Vehicles	<input type="checkbox"/> Idle Reduction
<input type="checkbox"/> Ethanol	<input type="checkbox"/> Hybrid Electric Vehicles	<input type="checkbox"/> Vehicle Conversions
<input type="checkbox"/> Hydrogen	<input type="checkbox"/> Flex Fuel Vehicles	
<input type="checkbox"/> Natural Gas	<input type="checkbox"/> Fuel Cell Vehicles	
<input type="checkbox"/> Propane	<input type="checkbox"/> Natural Gas Vehicles	
<input type="checkbox"/> Methanol	<input type="checkbox"/> Propane Vehicles	
	<input type="checkbox"/> Diesel Vehicles	

SEARCH

– Latest Additions

NEWS

Clean Cities Now Vol. 19, No. 1

Clean Cities Alternative Fuel Price Report, April 2015

[All Latest Additions](#)

+ Technology Bulletins

+ Newsletters

AFDC: Alternative Fuel Price Report

Alternative Fuels Data Center

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Publications

Find publications about alternative transportation, including alternative fuels, advanced vehicles, and regulated fleets.

Keyword

Category

alternative fuel price report

SEARCH

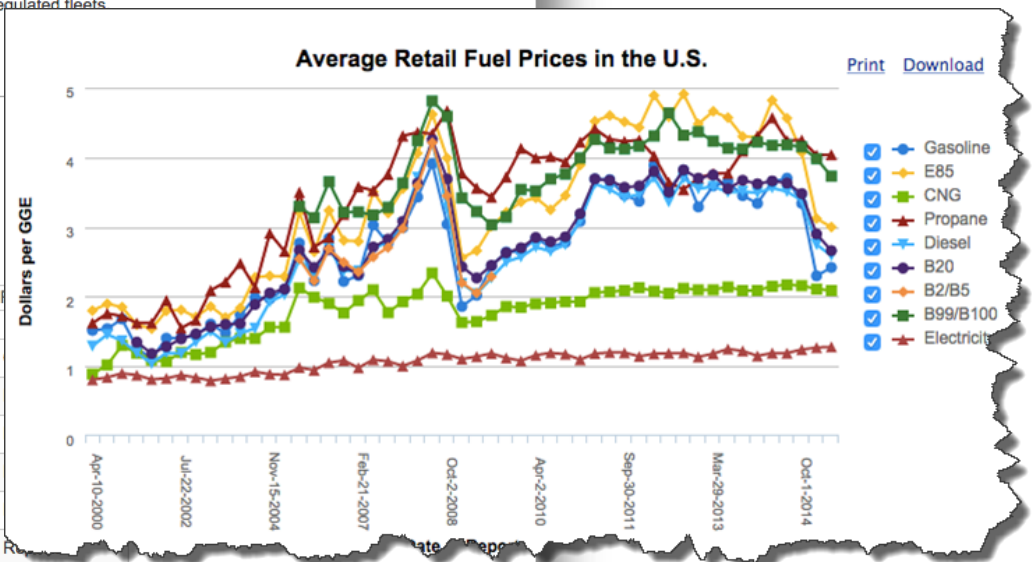
more search options

Search Results | 54 publications

Display 10 results

Sort by

Title	Author	Date
Clean Cities Alternative Fuel Price Report, April 2015	Bourbon, E.	5/28/2015
Clean Cities Alternative Fuel Price Report, January 2015	Bourbon, E.	3/17/2015
Clean Cities Alternative Fuel Price Report, October 2014	Bourbon, E.	12/23/2014
Clean Cities Alternative Fuel Price Report, July 2014	Bourbon, E.	7/31/2014
Clean Cities Alternative Fuel Price Report, April 2014	Bourbon, E.	6/3/2014
Clean Cities Alternative Fuel Price Report, January 2014	Bourbon, E.	3/4/2014
Clean Cities Alternative Fuel Price Report, October, 2013	Bourbon, E.	12/3/2013



AFDC Tools: Vehicle Cost Calculator

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Vehicle Cost Calculator

This tool uses basic information about your driving habits to calculate total cost of ownership and emissions for makes and models of most vehicles, including alternative fuel and advanced technology vehicles. Also see the cost [calculator widgets](#).



ASSUMPTIONS

Choose vehicles to compare

Select up to eight vehicles to compare from the makes and models below or [create your own custom vehicle](#).

2015 Ford Taurus AWD 6cyl 3.5L Automatic (S6) **ADD >>**

[Create Custom Vehicle](#)

Vehicle	Price	Fuel Economy (City/Hwy)	Fuel Type
 2015 Toyota Prius 4cyl 1.8L Automatic (variable gear ratios) Hybrid	\$ 24,200 Tax credit?	51/48 mpg	Hybrid
 2015 Ford Taurus AWD 6cyl 3.5L Automatic (S6) Gasoline	\$ 31,220	17/25 mpg	Gasoline

[Clear all](#)

Fuel Prices
Gasoline \$ 2.42 /gal


Tell us how you drive
Because vehicle use varies, you can enter your own driving habits to more accurately calculate costs.

Results:

- Total cost of ownership
- Annual fuel use and operating costs
- Cost per mile
- Annual emissions.



AFDC Tools: Alternative Fuel and Advanced Vehicle Search





Alternative Fuel and Advanced Vehicle Search

Find and compare alternative fuel vehicles (AFVs), engines, and hybrid systems. Some of the light-duty AFVs in this tool may count toward vehicle-acquisition requirements for [federal fleets](#) and [state and alternative fuel provider fleets](#) regulated by the Energy Policy Act (EPAAct).


Search Results - 1 - 8 of 175 vehicles

New Search | **Download** | Print

Filter by: **Fuel/Technology:** Biodiesel (B20), Ethanol (E85), Hydrogen Fuel Cell, CNG - Compressed Natural Gas, CNG - Bi-fuel, Electric, Plug-in Hybrid Electric, Hybrid Electric | **Class/Type:** Sedan/Wagon | **Manufacturer:** All

View:  

Audi A3 e-tron (2015)




Plug-in Hybrid Electric
Sedan/Wagon

Engine: 1.4L I4, 75 kW electric drive
Transmission: Auto

[Find a Dealer](#)

Audi A4 Quattro (2015)



Ethanol (E85)
Sedan/Wagon

Fuel Economy: 15 mpg city / 22 mpg hwy
Emission Certification: LEV II ULEV, Tier 2 Bin 5
Engine: 2.0L I4
Transmission: Auto

[Find a Dealer](#)

Refine Your Search


Fuel/Technology

- ☐ All Fuels
- ☒ Biodiesel (B20)
- ☒ Ethanol (E85)
- ☒ Hydrogen Fuel Cell
- ☐ LNG - Liquefied Natural Gas
- ☒ CNG - Compressed Natural Gas
- ☒ CNG - Bi-fuel
- ☐ Propane
- ☐ Propane - Bi-fuel
- ☒ Electric
- ☒ Plug-in Hybrid Electric
- ☒ Hybrid Electric
- ☐ Hybrid - Hydraulic

**Download search
results using
“Download” link**

AFDC Tools: Petroleum Reduction Planning Tool

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Petroleum Reduction Planning Tool

This planning tool helps your vehicle fleet reduce petroleum consumption and greenhouse gas (GHG) emissions. Create a comprehensive plan for your fleet by using several savings methods. If your fleet includes multiple vehicle types, add more vehicles to each method.

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ASSUMPTIONS

My Current Plan

SET GOAL CLEAR PLAN

Savings Methods		Petroleum Reduction gal/yr	GHG Reduction tons CO ₂ /yr	Fuel Cost Savings \$/yr	Impact on Plan percent
<u>Replace Vehicles</u>	ADD TO PLAN	0	0	\$0	0%
<u>Use Alternative Fuel in Existing Vehicles</u>	ADD TO PLAN	0	0	\$0	0%
<u>Reduce Idling</u>	ADD TO PLAN	0	0	\$0	0%
<u>Reduce Mileage</u>	ADD TO PLAN	0	0	\$0	0%
<u>Drive Efficiently</u>	ADD TO PLAN	0	0	\$0	0%
Total savings from plan per year		0 gallons	0 tons of CO ₂	\$0	100%

AFDC Tools

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Tools

The Alternative Fuels Data Center offers a large collection of helpful tools. These calculators, interactive maps, and data searches can assist fleets, fuel providers, and other transportation decision makers in their efforts to reduce petroleum use.

 Calculators	 Interactive Maps	 Data Searches
 Vehicle Cost Calculator Compare cost of ownership and emissions for most vehicle models. mobile	 Alternative Fueling Station Locator Locate alternative fueling stations and get maps and driving directions. mobile	 Vehicle Search Compare light-duty alternative fuel vehicles, electric vehicles, and hybrids.
 Petroleum Reduction Planning Tool Create a plan for your fleet to reduce petroleum consumption and emissions.	 TransAtlas Analyze vehicle densities and locations of fueling stations and production facilities.	 Laws and Incentives Search Search for laws and incentives related to alternative fuels and advanced vehicles.
 CNG VICE Model 2.0 Evaluate ROI and payback period for natural gas vehicles and infrastructure.	 BioFuels Atlas Compare feedstocks and analyze biofuel production by location.	 Fuel Properties Comparison Compare alternative fuel properties and characteristics.


afdc.energy.gov/tools

U.S. DEPARTMENT OF **ENERGY** | Energy Efficiency & Renewable Energy | Office of Transportation & Air Quality | U.S. ENVIRONMENTAL PROTECTION AGENCY

www.fueleconomy.gov
the official U.S. government source for fuel economy information

Mobile | Español | Site Map | Links | FAQ | Videos

Find a Car | Save Money & Fuel | Benefits | My MPG | Advanced Cars & Fuels | About EPA Ratings | More...




Our Find a Car mobile app puts fuel economy and other car-buying info at your fingertips!

Available for Apple and Android


GET IT ON Google Play | Download on the App Store

Find & Compare Cars




Compare Side-by-Side
Power Search
Mobile Find-a-Car

My MPG




Calculate or Share Your MPG
Estimates from Drivers Like You
Enter Your MPG at the Pump

Save Money



Gas Mileage Tips
Fuel Cost Calculator
Find the Cheapest Gas

Hybrids & Electrics



Hybrids
Plug-in Hybrids
All-Electric Vehicles

Calculators and Other Tools

Fuel Savings Calculator
Trip Calculator
Can a Hybrid Save Me Money?
My Plug-in Hybrid Calculator
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Developer Tools

New on fueleconomy.gov...

2016 Fuel Economy Data Updated
2016 Top Ten Most Efficient Vehicles
2016 Best in Class Fuel Economy
2016 Fuel Economy Guide
About Hybrid and Electric Cars

Quick Picks

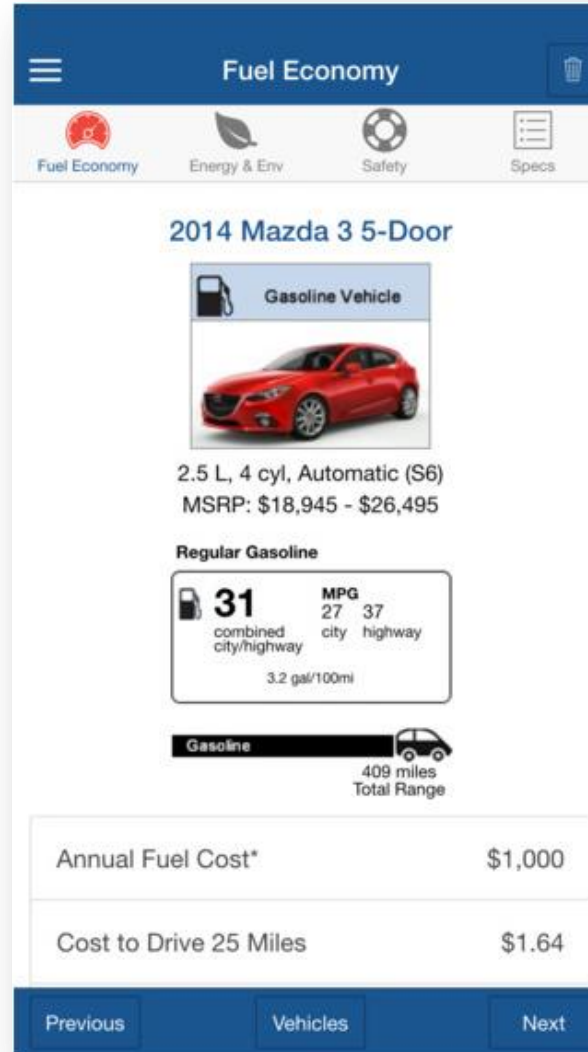
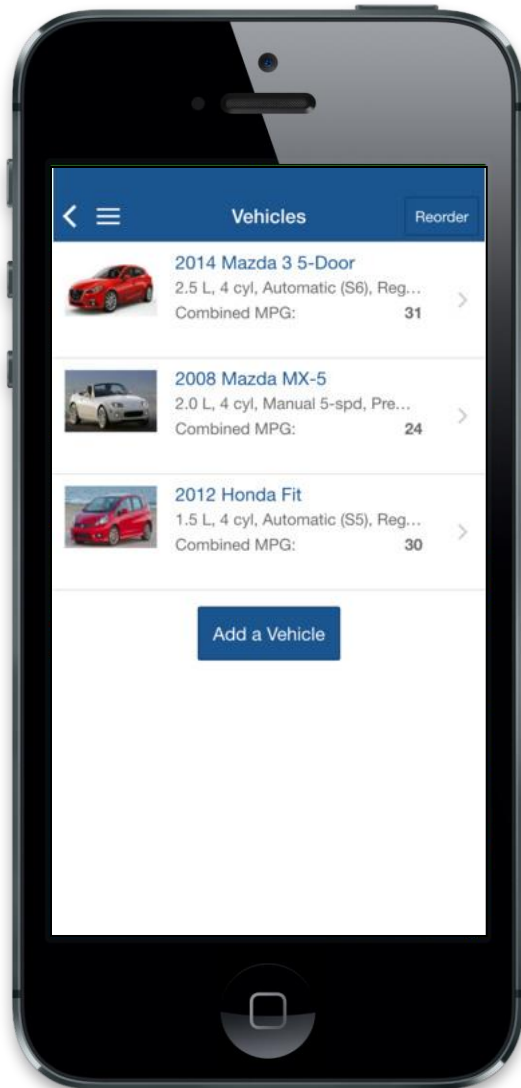
Can a Hybrid Save Me Money?
Video - How Plug-in Hybrids Save Money
Extreme MPG
Motorweek Videos
Top 10 - Most Efficient Vehicles, 2016

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- *Fuel economy ratings*
- *Energy impact*
- *Smog score*
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FuelEconomy.gov: Find-a-Car Mobile App



Spanish Language Resources

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Vehículos eléctricos híbridos y enchufables

Los vehículos de accionamiento eléctrico se valen de la electricidad como fuente principal de energía o la utilizan para mejorar la eficiencia de diseños vehiculares convencionales. Estos vehículos se pueden dividir en tres categorías:

- Vehículos eléctricos híbridos (HEV, por sus siglas en inglés)
- Vehículos eléctricos híbridos enchufables (PHEV, por sus siglas en inglés)
- Vehículos totalmente eléctricos (EV, por sus siglas en inglés)

Juntos, tienen el enorme potencial de reducir el uso de petróleo y la emisión de gases que producen los vehículos en los Estados Unidos.

Vehículos eléctricos híbridos

Los HEV funcionan con un motor de combustión interna y un motor eléctrico que utiliza energía almacenada en una batería. La potencia adicional que ofrece el motor eléctrico permite usar un motor más pequeño sin sacrificar el rendimiento. La batería también alimenta las cargas auxiliares, como los sistemas de audio y los faros delanteros, y puede reducir la velocidad de ralentí del motor cuando el vehículo está detenido. Algunos HEV pueden desplazarse distancias cortas a velocidades reducidas usando solamente energía eléctrica. Todas estas capacidades suelen dar lugar a una mejor economía del combustible y a una menor emisión de gases que los vehículos convencionales de características similares.

Introducción a los vehículos de propulsión eléctrica

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Conceptos básicos sobre el biodiésel

El biodiésel es un combustible renovable producido a nivel nacional que puede elaborarse a partir de aceites vegetales y usados, grasas animales y grasa proveniente de restaurantes. Las propiedades del biodiésel son similares a las de petróleo, pero la primera es una renovable de combustión más limpia. El biodiésel en lugar de diésel de petróleo significativamente las emisiones de dióxido de carbono durante su vida útil. Las investigaciones demuestran que también reduce la contaminación atmosférica de los vehículos de carretera más antiguos y diversas aplicaciones fuera de carretera.

Mezclas de biodiésel

El biodiésel puede mezclarse y utilizarse en muchas concentraciones diferentes. B100 (biodiésel puro), B20 (biodiésel, 80 % de diésel de petróleo y 20 % de biodiésel), B5 (biodiésel, 95 % de diésel de petróleo y 5 % de biodiésel) y B2 (2 % de biodiésel, 98 % de diésel de petróleo). B20 es una mezcla común de biodiésel en los Estados Unidos.

Uso de biodiésel en diésel

Para aquellos vehículos fabricados después de 1994, las mezclas de biodiésel B20 y B5 pueden utilizarse en motores diésel. Los vehículos eléctricos de autonomía extendida (E-HEV) usan otro combustible, como gas, para impulsar un motor de combustión interna. Los PHEV se pueden conectar a una estación de carga para cargar las baterías eléctricas para cargar las baterías eléctricas para cargar a través de la combustión interna y el frenado regenerativo.

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Thank You

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