



U.S. Department of Energy



## APEC

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# Why Clean Cities?

## Clean Cities

advances the energy, economic, and environmental security of the United States by supporting local actions to cut petroleum use in transportation.

Reduced petroleum consumption

Reduced greenhouse gas (GHG) emissions

Reduced dependence on imported petroleum

# Portfolio



**Eliminate**



# Local Partnerships: Clean Cities Coalitions



- National network of nearly **100 local coalitions**
- **82% of the total U.S. population** lives inside coalition boundaries
- Nearly **500,000 alternative fuel vehicles (AFVs)**

Western Riverside

nsas City

Albany

Connecticut\*



# Clean Cities: Making the Connections

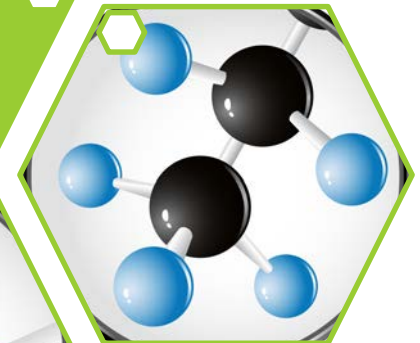


Local & National Partnerships

Information & Education

Competitively Awarded Funding

Technical & Problem Solving Assistance



# Information & Education: Websites



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

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Trip Calculator  
Can a Hybrid Save Me Money?  
My Plug-in Hybrid Calculator  
Used Car Label Tool  
Developer Tools  
Find a Car Widget

**My MPG**

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

**New on fueleconomy.gov...**

2015 Fuel Economy Data Updated  
2015 Fuel Economy Guide  
2015 Best and Worst Fuel Economy  
2015 Top 10 Most Efficient Vehicles

**Save Money**

Gas Mileage Tips  
Fuel Cost Calculator  
Find the Cheapest Gas

**Quick Picks**

Can a Hybrid Save Me Money?  
Video - How Plug-in Hybrid Save Money  
Extreme MPG  
Motorweek Videos  
Top 10 - Most Efficient Vehicles  
Myths and More  
My Plug-in Hybrid Calculator

**afdc.energy.gov**

**FuelEconomy.gov**

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

EERE Home | Programs & Offices | Consumer Information

**Alternative Fuels Data Center**

Search the AFDC

FUELS & VEHICLES CONSERVE FUEL LOCATE STATIONS LAWS & INCENTIVES

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**Fuels & Vehicles**

Biodiesel Electricity Ethanol Hydrogen Natural Gas Propane

**Information by State**

select a state

**Information by Fleet Application**

Delivery Services Refuse Collection  
Public Transit School Transportation

**Maps & Data**

- U.S. Alternative Fueling Stations by Fuel Type
- Alternative Fuel Vehicles in Use
- U.S. Hybrid Electric Vehicle Sales by Model

**Fuel Prices**

**Tools**

- Laws & Incentives
- Electricity Sources & Emissions
- Vehicle Cost Calculator
- Vehicle Search
- Petroleum Reduction Planning Tool

**Station Locator**

**Need a Jump?**

Ten ways to get rolling on petroleum savings, emissions reductions, and lower fuel costs.

**The Information Source for Alternative Fuels and Advanced Vehicles**

The Alternative Fuels Data Center (AFDC) provides information, data, and tools to help fleets and other transportation decision makers find ways to reduce petroleum consumption through the use of alternative and renewable fuels, advanced vehicles, and other fuel-saving measures.

Clean U.S. The AFDC is a resource of the U.S. Department of Energy's Clean Cities program.





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

Vol. 19, No. 2  
Winter 2015

## Clean Cities Now



**Inside:**

- Airport Gets Greener with Electric Ground Support Equipment
- Coordinators Honored for Outstanding Efforts to Cut Petroleum Use
- Strategy Meeting Lays Groundwork for the Next Five Years
- How AFVs Must Measure Up to Federal Emissions Standards

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

### Clean Cities

*Building Partnerships to Cut Petroleum Use in Transportation*

The U.S. Department of Energy's (DOE's) Clean Cities program advances the nation's economic, environmental, and energy security by supporting local actions to cut petroleum use in transportation. At the national level, the program develops and promotes publications, tools, and other unique resources. At the local level, nearly 100 coalitions leverage these resources to create networks of stakeholders. The coalitions support fleets by providing technical assistance for implementing alternative and renewable fuels, idle-reduction measures, fuel economy improvements, and emerging transportation technologies.

Clean Cities was established in 1993 in response to the Energy Policy Act of 1992 and is housed within DOE's Vehicle Technologies Office. Since its inception, Clean Cities has saved more than 7.5 billion gallons of petroleum. In doing so, the program has been a catalyst for transportation projects that advance U.S. energy independence, transform local markets, support regional economic development, and reduce harmful vehicle emissions.

#### Goal and strategies

Clean Cities is on track to meet its goal of saving 2.5 billion gallons of petroleum per year by 2020. To achieve this goal, Clean Cities employs three strategies:

- Replace petroleum with alternative and renewable fuels, including bio-based, E85, electricity, hydrogen, natural gas, and propane
- Reduce petroleum consumption through technologies and strategies that improve fuel efficiency
- Eliminate petroleum use through idle reduction and other fuel-saving technologies and practices.

VEHICLE TECHNOLOGIES OFFICE

[deancities.energy.gov](http://deancities.energy.gov)



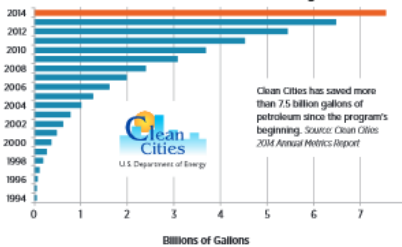
Adams 12 School District in Colorado has successfully implemented a propane project adding 12 propane buses to their fleet. So far the buses have had low maintenance costs and above average reliability, and are a favorite among district school bus drivers.  
Photo by Denise Schwabke/ANZL 1/12/12

#### Clean Cities at Work

Clean Cities' efforts support reduced dependence on petroleum at the local, state, and national levels. Clean Cities' activities include:

- Building partnerships with local coalitions of public- and private-sector transportation stakeholders
- Developing unbiased and objective information about alternative fuels, advanced vehicles, and other strategies to cut petroleum use
- Advancing interactive, data-driven online tools to help stakeholders evaluate options and achieve goals
- Collecting and sharing best practices, data, and lessons learned to inform choices and build a strong national network
- Providing technical assistance to help fleets deploy alternative fuels, advanced vehicles, and idle-reduction measures
- Working with industry partners and fleets to identify and address technology barriers
- Empowering local decision makers to successfully implement the best petroleum reduction strategy for their circumstance
- Seeding local alternative fuels markets through projects that deploy vehicles and fueling infrastructure.

#### Clean Cities Cumulative Petroleum Savings



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

### Plug-In Electric Vehicle Handbook for Consumers



Energy

### Costs Associated With Non-Residential Electric Vehicle Supply Equipment

Factors to consider in the implementation of electric vehicle charging stations

November 2015

Prepared by New West Technologies, LLC for the U.S. Department of Energy Vehicle Technologies Office



U.S. Department of Energy

# Technical & Problem Solving Assistance



## Technical Response Service

- **First-level** resource for stakeholders, consumers, and others
- Research and respond to general inquiries
- Address challenging questions
- Educate legislators and government officials.



[TechnicalResponse@icfi.com](mailto:TechnicalResponse@icfi.com), 800-254-6735

## Tiger Teams

- **Second-level** resource for coordinators, stakeholders, and others
- Expert technical problem solving to overcome obstacles
- Assistance on barriers that challenge local resources
- Help at any point in the project/product life-cycle (concept, development, execution, operation/maintenance, closure).





# 2019 Gallons of Gasoline Equivalent Reduced

- 20,103,376 gallons
- Alternative Fuel Vehicles (50%)
- Electric & Plug-In Vehicles (0.6%)
- Fuel Economy Improvements (9.3%)
- Hybrid Vehicles (0.2%)
- Idle Reduction (27%)
- Off-Road Vehicles (12%)
- Vehicle Miles Traveled Reductions (0.02%)



# Local projects

- Anheuser-Busch runs 98 CNG Class 8 regional haul on CNG, 1.7 million DGE a year, shortly that will be all renewable natural gas.
- Ameren IL- runs 250 trucks on B-11-20, a little over 160 thousand gallons a year and they have 24 CNG trucks.
- Illinois District 8 runs 35 Biodiesel truck and burn 197 thousand gallons of B11-20 a year.
- UPS- runs 83 LNG Class 8 regional haul on LNG, 3 million DGE a year.
- Springfield, IL Police- run 56 propane police cars and about 250 thousand GGE a year

# 2019 Greenhouse Gas Emissions Reduced

146,577 tons

- Alternative Fuel Vehicles (24%)
- Electric & Plug-In Vehicles (0.4%)
- Fuel Economy Improvements (17%)
- Hybrid Vehicles (0.4%)
- Idle Reduction (46%)
- Off-Road Vehicles (10%)
- Vehicle Miles Traveled Reductions (0.04%)



# Gallons reduced/ Greenhouse Gas Emissions

- Since 2009
- 122.6 Million gallons since 2009
- 147.5K tons of Greenhouse gas emissions





# CLEAN CITIES

## St. Louis Regional

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