

# SAE 2012 School Bus Powertrain Innovation Symposium

Reducing Fuel and Maintenance Costs Using Propane,  
Compressed Natural Gas, and Hybrid Electric Technology

FREE online event | March 19-22, 2012



## CLEAN AIR VEHICLE FUNDING SOURCES



**Richard Battersby, CAFM, CFPF**

**University of California, Davis**

**East Bay Clean Cities Coalition**



U.S. Department of Energy  
Energy Efficiency  
and Renewable Energy



**If you only write down one thing.....**

**[www.cleancitieseastbay.org](http://www.cleancitieseastbay.org)**





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Energy Efficiency  
and Renewable Energy



# Funding Strategies 101

- Funding sources
- Locating opportunities
- Keeping up to date







## Funding Strategies 101

- **Clean air vehicles cost more**
- **Internal funding mechanisms**
- **External funding sources**







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and Renewable Energy



# Funding Strategies 101

- **Grants**
- **Vouchers**
- **Incentives**
- **Rebates**
- **Tax credits**





## 2009 AVAILABLE GRANT AWARDS

- \$300 million Department of Energy/ARRA
- \$156 million EPA/National Clean Diesel Funding
- \$30 million EPA/SmartWay Clean Diesel
- \$25.6 million EPA/Emerging Technologies Clean Diesel
- \$23.3 million CA Energy Commission AB118
- \$19 million CA Energy Commission AFV production
- \$20.4 million CA Air Resources Board HVIP vouchers
- \$4.1 million CA Air Resources Board AFVIP rebates
- \$7 million Reformulated Gasoline Settlement Fund
- \$20 million Bay Area AQMD TFCA program
- \$31 million MTC Innovative Grants (GHG reduction)



## GRANT TYPES

- **Competitive-** Multiple entities vying for a limited amount of funding (e.g. Clean Cities Petroleum Reduction)
- **Formulaic-** No competition; distributed based upon established percentages (population, etc.)  
(e.g. Energy Efficiency and Conservation Block Grant EECBG)
- **Categorical-** For specific projects, may require match
- **Block-** Formulaic grants, as provided to states for further award
- **Earmark-** Awarded through legislation



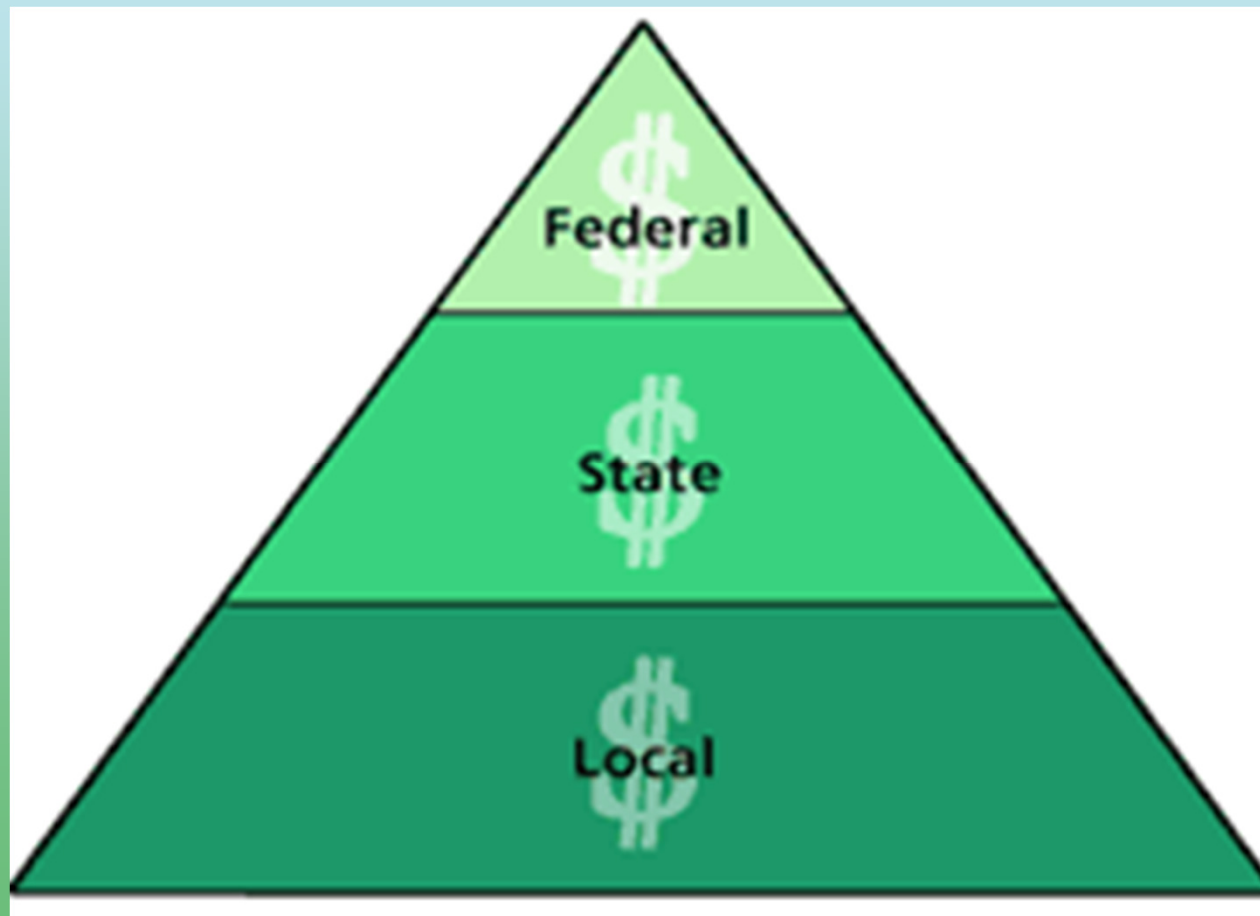




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# THE FUNDING PYRAMID





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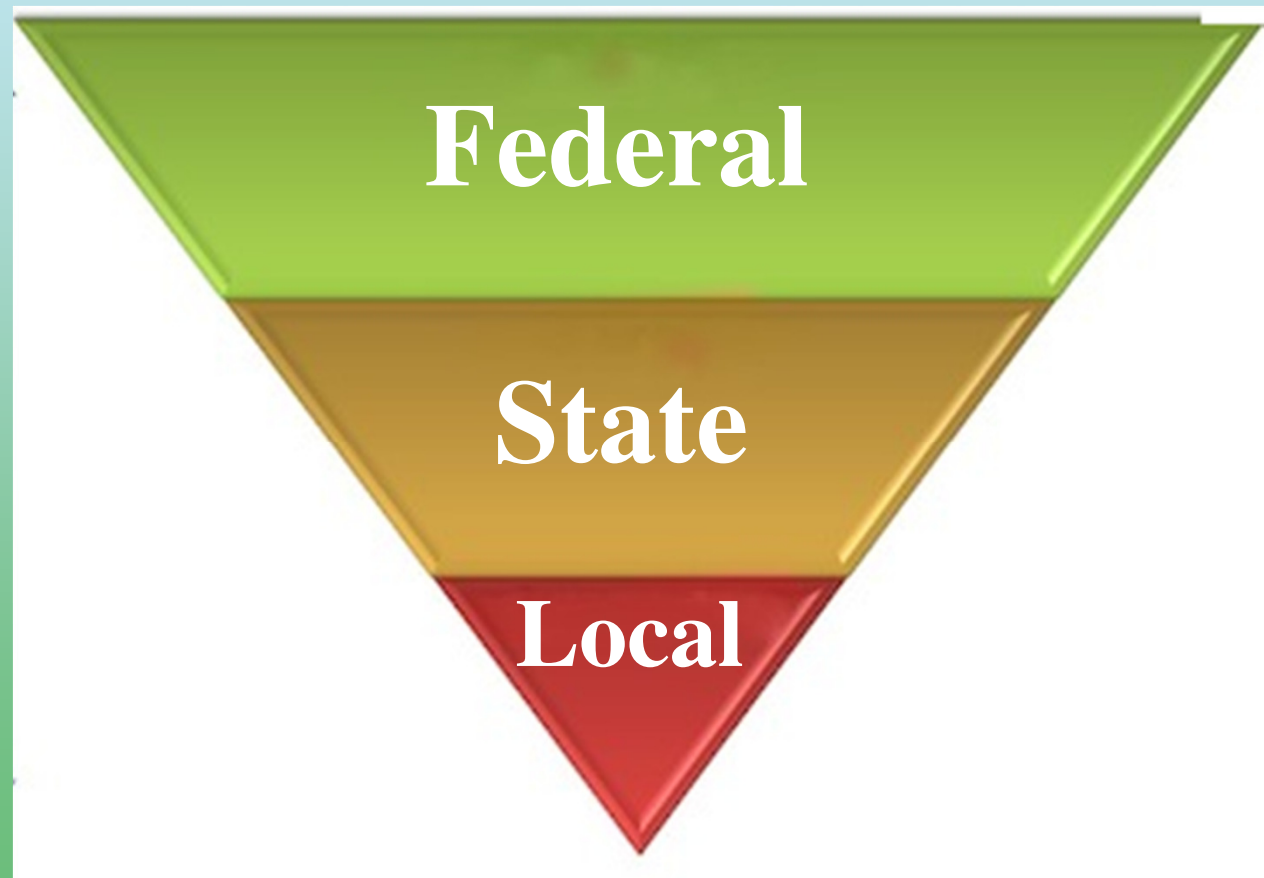
# THE INVERTED FUNDING PYRAMID

\$\$\$

Threshold

Effort

Paperwork

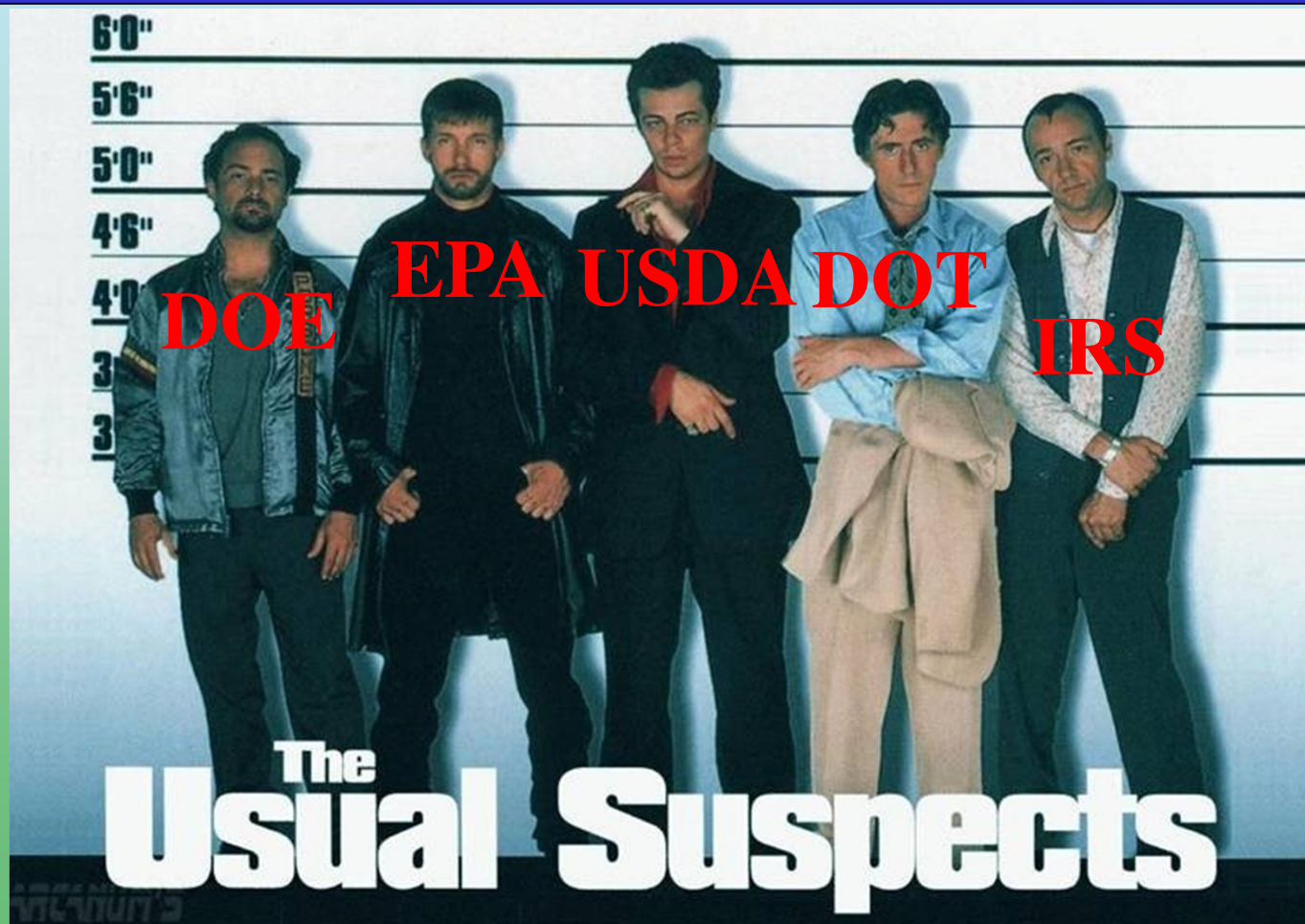




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## FEDERAL GRANT SOURCES







# FEDERAL

- **Department of Energy (DOE)**
  - EERE, VTP, SEP, Clean Cities, ARRA
  - <http://www1.eere.energy.gov/vehiclesandfuels/financial/index.html>
- **Environmental Protection Agency (EPA)**
  - National and Regional, NCDC and DERA clean diesel
  - <http://www.epa.gov/otaq/diesel/index.htm>
  - <http://www.epa.gov/cleandiesel/grantfund.htm>
  - <http://www.epa.gov/cleandiesel/tools/funding.htm>
- **Department of Agriculture (USDA)**
  - REAP, Flex Fuel dispensers, biofuel production
  - [http://www.usda.gov/wps/portal/usda/usdahome?navid=GRANTS\\_LOANS](http://www.usda.gov/wps/portal/usda/usdahome?navid=GRANTS_LOANS)
- **Department of Transportation (DOT)**
  - FTA, FHWA, TCSP, FAA (VALE), etc.
  - [http://www.dot.gov/Government\\_Services.htm](http://www.dot.gov/Government_Services.htm)



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## FEDERAL DOE/ARRA (Clean Cities)

# Hybrid Horsepower for Kentucky Schools

Kentucky has the largest hybrid-electric school bus fleet in the nation with 160 school buses on the road. The program is made possible by a

**\$13 million** grant from the U.S. Department of Energy that was awarded to the Kentucky Department of Education in December 2009. The grant offsets the purchase price of the hybrid system for a total of 213 buses.





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## FEDERAL DOE/ARRA (Clean Cities)

### Kansas City- 47 CNG School Busses

On Wednesday March 16, the Kansas City, Kansas School District welcomed some newcomers to their community – 47 natural gas school buses deployed as part of the Clean Cities Alternative Fuel Vehicle Pilot Program, supported by the American Recovery and Reinvestment Act. This award is part of a larger,

**\$15 million** Metropolitan Energy Information Center Midwest Region Alternative Fuels Project.

This project will install 27 alternative fuel stations and bring 373 alternative fuel and advanced technology vehicles to Midwest roads.







## FEDERAL EPA

### DERA Grant Programs

- The Diesel Emissions Reduction Program (known as "DERA") was created under the Energy Policy Act of 2005 (EPAAct), Title VII, Subtitle G (Sections 791 to 797). This gave EPA new grant and loan authority for promoting diesel emission reductions and authorized appropriations to the Agency of up to **\$200 million** per year for FY2007 through FY2011. Congress appropriated funds for the first time under this program in FY2008 in the amount of **\$49.2 million**. In addition, **\$300 million** was appropriated under the American Reinvestment and Recovery Act of 2009, **\$120 million** was appropriated for FY2009-2010, and **\$49.9 million** for FY11.





## FEDERAL USDA

**The Recovery Act projects being announced today are funded through the USDA Rural Development Community Facilities Program and will be matched with funding from other sources. Funding of each loan and grant is contingent upon the recipient meeting the conditions of the agreement.**

### **Oklahoma:**

After being awarded over **\$28,000** in Community Facility Grant funds from the USDA Rural Development, students in at Briggs School are riding on a new school bus. Funding for this project is supported by the American Recovery and Reinvestment Act.

### **Virginia:**

- Carroll County Industrial Development Authority: **\$434,490** loan- purchase six new school buses.
- Wythe County: **\$50,000** grant. The funding will be used to purchase a school bus.

### **Mississippi:**

USDA awarded a **\$54,200** grant to Institute of Community Services, Inc. to purchase a school bus for a head-start center.



## STATE

- **For your state energy office, look here:**  
<http://www.naseo.org/members/states/default.aspx>
- **Alternative Fuels and Advanced Vehicles Data Center**  
<http://www.afdc.energy.gov/afdc/states/>

**There may be multiple state level funding entities**

Example: CA Energy Commission and Air Resources Board





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# NASEO STATE ENERGY OFFICE LOCATOR

## NASEO

*Transforming America's Energy Future*

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State/Territory  
Energy Offices

Affiliates

### NASEO State & Territory Energy Office Members

Click on the map below for information about each state energy office:

Select a State





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# NASEO STATE ENERGY OFFICE LOCATOR

## State/Territory Energy Offices

Affiliates

## NASEO State & Territory Members California

### California Energy Commission

1516 Ninth Street, MS #39  
Sacramento, CA 95814-5512  
916.654.4287 fax: 916.654.4423  
[www.energy.ca.gov](http://www.energy.ca.gov)

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CALIFORNIA REPUBLIC

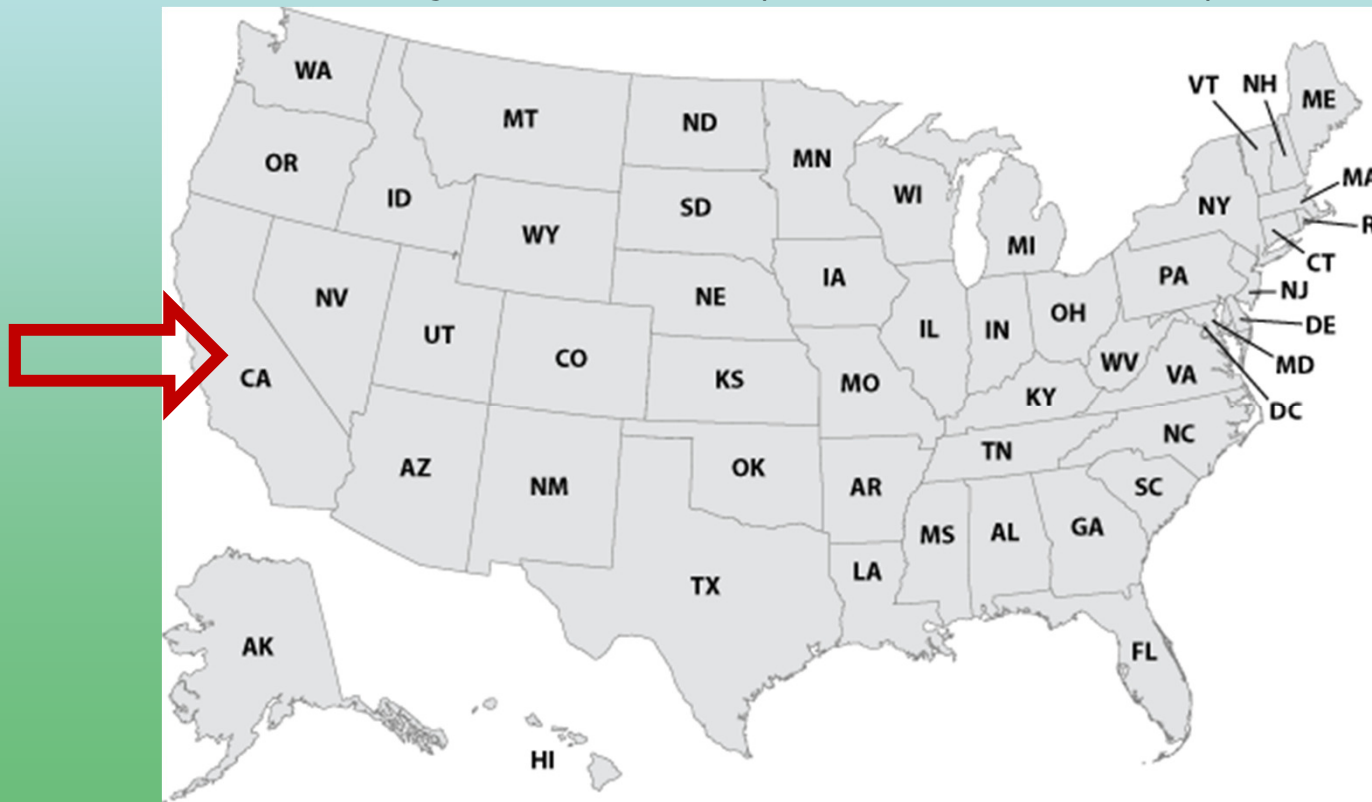




# AFDC STATE RESOURCE DIRECTORY

## State Information

Click on the map below to obtain state-specific information on alternative fuel and advanced vehicle incentives and laws, locations of alternative fueling stations and truck stop electrification sites, area fuel prices, and much more.







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# AFDC STATE RESOURCE DIRECTORY

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](#) [Home](#)

### Information Resources

[Publications](#)

[Videos](#)

[Tools](#)

[State Information](#)

[Spanish Resources](#)

[Data Downloads](#)

[Related Links](#)

[Glossary](#)

[Codes & Standards](#)

#### California Information

This state page compiles information related to alternative fuels and advanced vehicles in California 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 [California's Incentives and Laws](#), including the latest ones listed below.

- [Employer Invested Emissions Reduction Funding - South Coast](#)
- [Air Quality Improvement Program Funding - Ventura County](#)
- [Low Emissions School Bus Grants](#)
- [High Occupancy Vehicle \(HOV\) Lane Exemption](#)

To look up nationwide legislative activity, visit [Incentives and Laws](#).

#### Locator Tools



#### Alternative Fueling Station Locator

Look up the locations of California's 1182 alternative refueling stations.

- [Biodiesel \(36\)](#)
- [Ethanol \(62\)](#)
- [Natural Gas \(221\)](#)
- [Electricity \(604\)](#)
- [Hydrogen \(22\)](#)
- [Propane \(237\)](#)

For a nationwide search, visit the [Alternative Fueling Station Locator](#).

[Search](#)  
[Search Help](#) [More Search Options](#)

[Site Map](#)  
[EERE Information Center](#)

[Select a new state](#) [Go](#)



# AFDC STATE RESOURCE DIRECTORY

## California Incentives and Laws

Listed below are incentives, laws, and regulations related to alternative fuels and advanced vehicles for California. Your Clean Cities coordinator at your [local coalition](#) can provide you with information about grants and other opportunities. You can also access coordinator and other agency contact information in the [points of contact](#) section.

### Incentives and Laws

[View All](#)[Advanced Search](#)

Information in this list is updated annually after California's [legislative session](#) ends.

*Last Updated May 2011*

### State Incentives

- [Hybrid Electric Vehicle Purchase Vouchers](#)
- [Plug-In Hybrid and Zero Emission Light-Duty Vehicle Rebates](#)
- [Alternative Fuel and Vehicle Research and Development Incentives](#)
- [High Occupancy Vehicle \(HOV\) Lane Exemption](#)
- [Alternative Fuel Vehicle \(AFV\) and Fueling Infrastructure Grants](#)
- [Emissions Reductions Grants](#)
- [Heavy-Duty Vehicle Emissions Reduction Grants](#)
- [Natural Gas Vehicle \(NGV\) Home Fueling Infrastructure Incentive - South Coast](#)
- [Low Emissions School Bus Grants](#)
- [Alternative Fuel and Advanced Technology Research and Development](#)
- [Advanced Transportation Financing](#)
- [Compressed Natural Gas \(CNG\) Tax Exemption for Transit Use](#)
- [Vehicle Emissions Reduction Grants - Sacramento](#)
- [Employer Invested Emissions Reduction Funding - South Coast](#)
- [Technology Advancement Funding - South Coast](#)
- [Low Emission Vehicle Incentives and Technical Training - San Joaquin Valley](#)
- [Air Quality Improvement Program Funding - Ventura County](#)

### Utility/Private Incentives

- [Electric Vehicle Supply Equipment \(EVSE\) Incentive - Coulomb Technologies](#)
- [Electric Vehicle Supply Equipment \(EVSE\) Rebate - LADWP](#)
- [Electric Vehicle Supply Equipment \(EVSE\) Incentive - ECOTality](#)
- [Alternative Fuel Vehicle \(AFV\) and Hybrid Electric Vehicle \(AFV\) Insurance Discount](#)
- [Electric Vehicle \(EV\) Charging Rate Credit - SMUD](#)
- [Electric Vehicle \(EV\) Charging Rate Reduction - LADWP](#)
- [Electric Vehicle \(EV\) Charging Rate Reduction - SCE](#)
- [Clean Vehicle Electricity and Natural Gas Rate Reduction - PG&E](#)
- [Electric Vehicle \(EV\) and Natural Gas Infrastructure Charging Rate Reduction - SDG&E](#)
- [Natural Gas Rate Reduction - SoCalGas](#)
- [Biofuel Volume Rebate Program - Propel Fuels](#)





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# AFDC STATE RESOURCE DIRECTORY

**Alternative Fuels & Advanced Vehicles Data Center**

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**Federal & State Incentives & Laws**

Search: school bus funding [Search] Search Help | More Search Options

Printable Version | Site Map | EERE Information Center

**Federal**

**State**

**Advanced Search**

**All Incentives & Laws Sorted by Type**

- Technology or Fuel
- Incentive
- Regulation
- User

This section allows you to browse and search a database of federal and state laws and incentives related to alternative fuels and vehicles, air quality, fuel efficiency, and other transportation-related topics.

**Federal Incentives and Laws**

**State Incentives and Laws**

**Search All Incentives and Laws** ▶  
Use an advanced search to find a specific federal or state incentive or law.

**View Tables of Incentives and Laws** ▶  
View tables of incentives and laws sorted by [technology/fuel](#), [incentive](#), [regulation](#), or [user](#).

**Read Key Legislation** ▶  
Read selected federal legislation summaries related to alternative fuels and advanced transportation technologies.

**Find Local Incentives and Laws** ▶  
Find examples of incentives and laws from local governments.



# AFDC STATE RESOURCE DIRECTORY

Results for: school bus funding

about 1839 results found, top 500 sorted by relevance

[score using date](#) [hide summaries](#) [group by location](#)

1-10

## [Alternative Fuels and Advanced Vehicles Data Center: Clean School Bus Program - North Central TX](#)

Federal State Advanced Search All Incentives & Laws Sorted by Type Technology or Fuel Incentive Regulation User Printable Version Texas > State Incentives Clean **School Bus** Program - North Central TX The ...

<http://www.afdc.energy.gov/afdc/laws/law/TX/5795-> 9.3KB

19 Mar 12

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## [Alternative Fuels and Advanced Vehicles Data Center: School Bus Retrofit Grant Program](#)

Federal State Advanced Search All Incentives & Laws Sorted by Type Technology or Fuel Incentive Regulation User Printable Version Ohio > State Incentives **School Bus** Retrofit Grant Program The Ohio ...

<http://www.afdc.energy.gov/afdc/laws/law/OH/6501-> 9.1KB

20 Jan 12

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## [Alternative Fuels and Advanced Vehicles Data Center: Low Emissions School Bus Grants](#)

Federal State Advanced Search All Incentives & Laws Sorted by Type Technology or Fuel Incentive Regulation User Printable Version California > State Incentives Low Emissions **School Bus** Grants The Lower- ...

<http://www.afdc.energy.gov/afdc/laws/law/CA/5357-> 10.3KB

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## [Alternative Fuels and Advanced Vehicles Data Center](#)

Federal State Advanced Search All Incentives & Laws Sorted by Type Technology or Fuel Incentive Regulation User Printable Version Expired, Repealed, and Archived Washington Incentives and Laws The ...

[http://www.afdc.energy.gov/afdc/laws/laws\\_expired/WA-](http://www.afdc.energy.gov/afdc/laws/laws_expired/WA-) 13.2KB

15 Dec 11

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## [Alternative Fuels and Advanced Vehicles Data Center: Ohio Incentives and Laws for Grants](#)

Federal State Advanced Search All Incentives & Laws Sorted by Type Technology or Fuel Incentive Regulation User Printable Version Ohio Incentives and Laws for Grants The list below contains summaries of ...

<http://www.afdc.energy.gov/afdc/laws/laws/OH/incentive/3233-> 16.5KB

19 Nov 10

[Find Similar](#)

## [Alternative Fuels and Advanced Vehicles Data Center: Ohio Incentives and Laws for Fleet Purchaser/Manager](#)

Federal State Advanced Search All Incentives & Laws Sorted by Type Printable Version Ohio Incentives and Laws for Fleet Purchaser/Manager The list below contains summaries of all Ohio incentives and laws ...

<http://www.afdc.energy.gov/afdc/laws/laws/OH/user/3261-> 12.3KB

20 Jan 12

[Find Similar](#)

## [Alternative Fuels and Advanced Vehicles Data Center: Ohio Incentives and Laws for Biodiesel](#)

Federal State Advanced Search All Incentives & Laws Sorted by Type Printable Version Ohio Incentives and Laws for Biodiesel The list below contains summaries of all Ohio incentives and laws related to ...

<http://www.afdc.energy.gov/afdc/laws/laws/OH/tech/3251-> 13.5KB

20 Jan 12

[Find Similar](#)





## STATE CA Energy Commission (AB 118)

The maximum funding available by fuel type is:

- \$6.447 million for light-, medium-, and heavy-duty natural gas vehicles,
- \$5.262 million for light-, medium-, and heavy-duty propane vehicles, and
- **\$1.0 million for propane school buses.**

The individual incentive amounts by fuel type and gross vehicle weight (GVW) are as follows:

### Natural Gas and Propane Vehicle Incentives

GVW (lbs)	Incentive Amounts	
	Natural Gas	Propane
Up to 8,500	\$3,000	\$3,000
8,501 – 14,000	\$8,000	\$6,000
14,001 – 26,000	\$20,000	\$10,000
26,001 & greater	\$26,000 *	NA
26,001 & greater	\$32,000 **	NA



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# STATE CA Air Resources Board (HVIP)



## Current HVIP Voucher Amounts

Gross Vehicle Weight in Pounds (lbs)		Base Incentive <sup>1</sup>
5,001 – 8,500 lbs <sup>2</sup>	Zero-Emission	\$12,000
	Plug-in Hybrid	\$10,000
8,501 – 10,000 lbs	Zero-Emission	\$15,000
10,001 – 19,500 lbs <sup>3</sup>		\$15,000
19,501 – 33,000 lbs		\$20,000
33,001 – 38,000 lbs		\$25,000
> 38,000 lbs		\$30,000

<sup>1</sup> The first voucher received by a fleet is increased by \$5,000. Vouchers for ARB-certified hybrid vehicles above 14,000 lbs are increased by \$5,000.

<sup>2</sup> The first voucher received by a fleet is increased by \$3,000, for a total of \$15,000.

<sup>3</sup> Zero-emission commercial vehicles in this weight category are eligible for \$20,000. Public school districts receive an additional \$10,000 for school buses. See Eligible Vehicle list for specific voucher amounts.

## HVIP Voucher Funding (as of March 7, 2012)

ARB FY11 Voucher Funding Requested: \$7,404,000 (363 vehicles)

ARB FY11 Voucher Funding Remaining: \$10,801,818

CEC FY11 Voucher Funding: \$3,800,000 (funding exhausted--150 vehicles)

SCAQMD FY10 Voucher Funding: \$1,430,000 (funding exhausted--41 vehicles)

ARB FY10 Voucher Funding: \$19,330,000 (funding exhausted--662 vehicles)





## LOCAL

- ***Clean Cities***
- ***Air/Pollution Control Districts***
- ***Metropolitan Planning Organizations (MPO)***  
***Congestion Mitigation & Air Quality (CMAQ) Funds***
- Transit/Transportation Authorities
- Utilities
- City, state, non-profits, and corporate philanthropy
- Carbon/pollution offsets and credits (?)

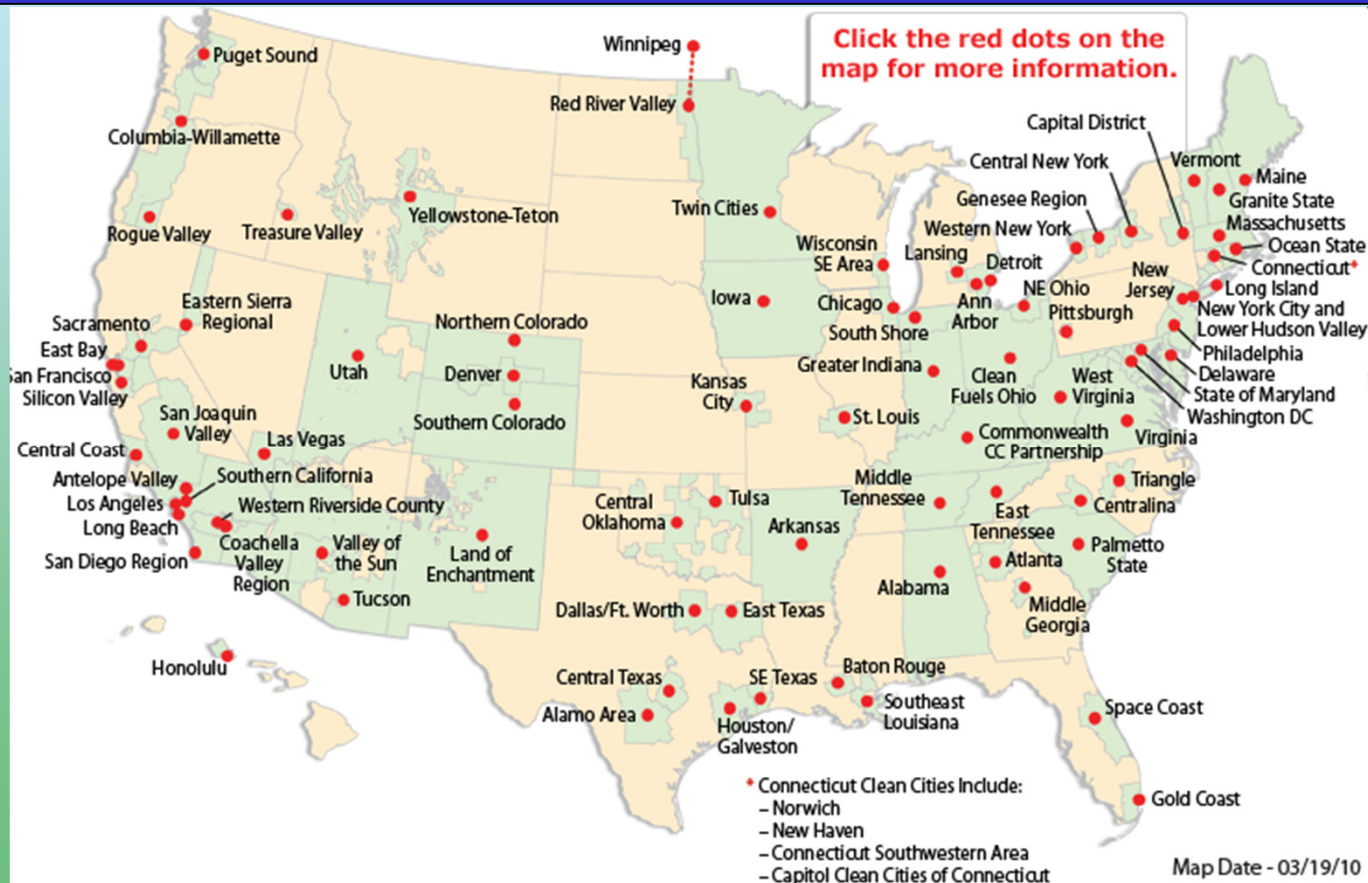




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# LOCAL CLEAN CITIES COALITIONS







# MPO LOCATOR



**RITA**

Research and Innovative Technology Administration  
Bureau of Transportation Statistics

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## Metropolitan Planning Organizations

Metropolitan Planning Organizations are responsible for planning, programming and coordination of federal highway and transit investments in urbanized areas.

### Alabama

- [Birmingham RPC - Birmingham \(AL\)](#)
- [Dothan MPO - Dothan \(AL\)](#)
- [East Alabama Regional Planning and Development Commission - Anniston \(AL\)](#)
- [Gadsden-Etowah MPO - Gadsden \(AL\)](#)
- [Huntsville MPO - Huntsville \(AL\)](#)
- [Lee-Russell COG - Opelika \(AL\)](#)
- [Montgomery Division of PPT - Montgomery \(AL\)](#)
- [North-Central Alabama Regional COG - Decatur \(AL\)](#)
- [Northwest Alabama COLG - Muscle Shoals \(AL\)](#)
- [South Alabama RPC - Mobile \(AL\)](#)
- [West Alabama PDC - Northport \(AL\)](#)

### Alaska

- [Anchorage MATS - Anchorage \(AK\)](#)

### Arizona

- [Flagstaff MPO - Flagstaff \(AZ\)](#)
- [Maricopa AOG - Phoenix \(AZ\)](#)
- [Pima AOG - Tucson \(AZ\)](#)
- [Yuma MPO - Yuma \(AZ\)](#)

### Arkansas

- [Arkthoma RPC - Fort Smith \(AR\)](#)
- [Metroplan - Little Rock \(AR\)](#)
- [Northwest Arkansas RPC - Springdale \(AR\)](#)
- [Southeast Arkansas RPC - Pine Bluff \(AR\)](#)
- [West Memphis MPO - West Memphis \(AR\)](#)

### California

- [AMBAG - Marina \(CA\)](#)
- [Butte County Association of Governments - Chico \(CA\)](#)
- [Council of Fresno County Governments - Fresno \(CA\)](#)
- [Kern COG - Bakersfield \(CA\)](#)
- [Merced County Association of Governments - Merced \(CA\)](#)

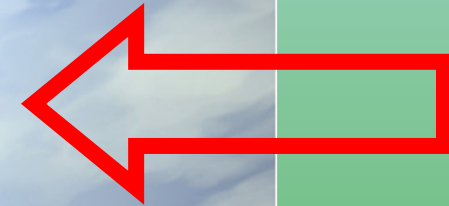


## LOCAL Bay Area Air Management Dist.



### BAAQMD Grants and Incentives

- **Carl Moyer Program (CMP):** \$19
- **Shore-Power Program (MSIF):** \$ 5
- **Goods Movement Program (GMP):**
  - Shore-Power Program* \$20
  - On-Road Truck Program* \$ 8
- **Lower Emission School Bus Program:** \$ 9
- **Transportation Fund for Clean Air (TFCA):**
  - Regional Fund* \$11
  - County Program Manager Fund* \$10



Approximately \$80 million to be allocated in Fiscal Year 2010/2011

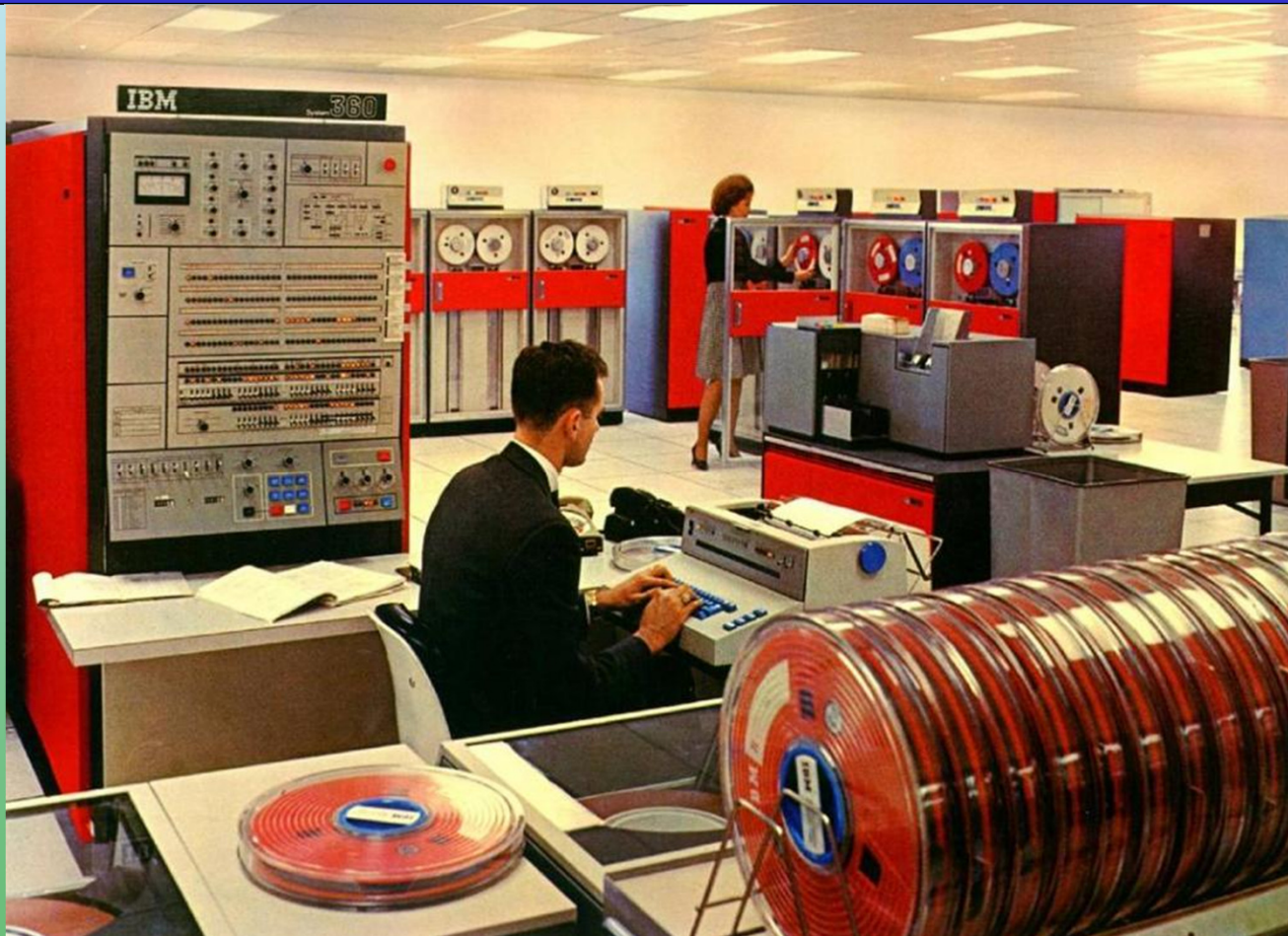




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# INFORMATION RESOURCES





## INFORMATION RESOURCES

- **Clean Cities (!)**
- List serves, newsletters, and e-bulletins
- Websites (Clean Cities, SEO, AFDC, etc.)
- Industry/trade organizations (NAPT, NGVA, NBB,)
- Vendors
- Fuel providers
- Peers
- Conferences/Events







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Clean  
Cities

# ACT EXPO 2012

May 15-17, 2012  
Long Beach Convention Center  
[www.actexpo.com](http://www.actexpo.com)

## North America's Leading Alternative Fuel & Clean Vehicle Technologies Show



Event Partners



U.S. DEPARTMENT OF  
**ENERGY**



*Network with fleet professionals from across the country at North America's largest alternative fuel, clean vehicle, and advanced technologies show.*

### Tuesday, May 15

Technical Site Tours  
Sessions Begin at 2:00 p.m.  
Expo Hall Evening Reception  
(Reception sponsored by Chesapeake)

### Wednesday, May 16

Expo Hall Open  
Keynote Address & Luncheon  
Full Day of Sessions  
Ride & Drive Event

### Thursday, May 17

Expo Hall Open  
Keynote Address & Luncheon  
Sessions End at 3:30 p.m.

ELECTRIC • HYBRID • HYDROGEN • NATURAL GAS • PROPANE • RENEWABLE FUELS • ADVANCED TECHNOLOGIES



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# GREEN FLEET Conference 2012

**October 2-3, 2012**  
**Renaissance Schaumburg**  
**Schaumburg, IL**

## THE BASICS

- **Who?** Fleet Management Professionals and Supporting Industry Suppliers
- **What?** A Two-Day Conference Dedicated to Car and Truck Fleet Professionals
- **When?** October 2-3, 2012
- **Where?** Renaissance Schaumburg Convention Center Hotel, Schaumburg, IL
- **Why?** To provide a Resource for Fleet Professionals to Learn to Save Money, Increase Efficiency, and Stay Up to Date with Their Eco-Friendly Fleets

## GFC IS COMPRISED OF 4 COMPONENTS

### EDUCATION



The 2012 Green Fleet Conference offers two full days of keynote presentations, workshops, seminars, and panel discussions personalized for fleet professionals that integrate an environmentally-friendly component into their operations. Concurrent sessions are broken up into two tracks, corporate and government to address the specific challenges facing each sector. [Learn More](#)

### EXHIBITS



The Green Fleet Conference is proud to provide your "brick and mortar" marketplace with an expanded exhibit hall. Stocked with the latest product and service displays, the exhibit hall is the one-stop source for car and truck fleet managers. [Learn More](#)

### RIDE & DRIVE EVENT



For the second time, the Green Fleet Conference is giving you the chance to test drive "green" vehicles and see new technology in action. Manufacturers will be there with keys in hand to show you their best. So take a vehicle out for a spin and see it for yourself! [Learn More](#)

### NETWORKING



The Green Fleet Conference is designed to facilitate dialogue both in sessions and in a more informal setting. With special time set aside for networking, you'll have the opportunity to make new contacts, build strategic alliances, bounce ideas off your peers, or just relax with new friends. [Learn More](#)



<http://www.greenfleetconference.com/>





# INFORMATION RESOURCES (DOE)

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

EERE Home | Programs & Offices | Consumer Information

## Clean Cities

HOME ABOUT COALITIONS **FINANCIAL OPPORTUNITIES** INFORMATION RESOURCES COORDINATOR TOOLBOX NEWS EVENTS

EERE » [Clean Cities](#) » Financial Opportunities

Printable Version SHARE

Current Opportunities

Related Opportunities

Funded Projects

### Financial Opportunities

Securing funding is critical to the success of efforts to reduce petroleum use in transportation. Financial opportunities for Clean Cities projects are available from many sources inside and outside the U.S. Department of Energy (DOE).

When applying for funding, [contact your Clean Cities coordinator](#) for help navigating the process successfully.

#### Current Financial Opportunities ▶

Find current transportation-related financial opportunities, including Clean Cities Funding Opportunity Announcements issued by DOE, when available.

#### Related Financial Opportunities ▶

Learn about related financial opportunities to pursue through organizations and federal agencies outside Clean Cities.

#### Funded Clean Cities Projects ▶

Clean Cities has awarded more than \$300 million to fund hundreds of projects across the country that reduce petroleum use in transportation.

#### Funding Terms

The U.S. Department of Energy publicizes available funding through competitive *funding opportunity announcements* (FOAs), similar to *requests for proposals* (RFPs) or *solicitations*.

#### Incentives and Laws

Clean Cities' Alternative Fuels and Advanced Vehicles Data Center maintains a comprehensive database of [Federal and State Incentives and Laws](#) related to alternative fuels and vehicles, air quality, fuel efficiency, and other transportation-related topics.



# INFORMATION RESOURCES

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

EERE Home | Programs & Offices | Consumer Information

## Clean Cities

Clean Cities

Search Help ▾

HOME ABOUT COALITIONS **FINANCIAL OPPORTUNITIES** INFORMATION RESOURCES COORDINATOR TOOLBOX NEWS EVENTS

EERE » Clean Cities » Financial Opportunities

Current Opportunities

**Related Opportunities**

Funded Projects

### Related Financial Opportunities

Transportation-related financial opportunities from organizations and federal agencies outside Clean Cities are listed below. Some of the government agencies listed have ongoing funding available; others issue funding notices periodically or assist in forming partnerships that can provide funding opportunities for transportation-related projects.

#### Congestion Mitigation and Air Quality Improvement

The [Congestion Mitigation and Air Quality Improvement](#) (CMAQ) program, administered by the Federal Highway Administration and the Federal Transit Administration, funds projects and programs that reduce transportation-related emissions and relieve traffic congestion. Funds are distributed locally through [metropolitan planning organizations](#).

#### Environmental Protection Agency

The U.S. Environmental Protection Agency (EPA) offers transportation-related financial opportunities through several avenues:

- [National Clean Diesel Campaign](#): EPA provides funding for idle reduction, cleaner fuels, vehicle replacements, and other strategies that reduce human exposure to diesel exhaust.
- [Grants and Fellowship Information](#): EPA provides links to grant programs and information about applying for EPA grants.
- [EPA Regions](#): EPA regional offices can issue funding for projects in their respective geographic areas, which is the case for programs such as Clean School Bus USA.
- [Environmental Education Grants Program](#): EPA's Office of Environmental Education supports projects that enhance public awareness, knowledge, and skills to help citizens make informed decisions that affect environmental quality.

#### Grants.gov

Grants.gov is an information hub for more than 1,000 grant programs of 26 federal government agencies. Grants.gov allows organizations to search and apply for competitive grant opportunities online. [Search for grant opportunities](#) on Grants.gov.

#### State Energy Offices

State energy offices research, demonstrate, and deploy renewable energy and energy-efficient technologies; spur energy-related economic development; and promote energy security and emergency preparedness. These offices can help you locate project funding. [Find your state energy office](#) from the National Association of State Energy Officials website.

#### Additional Funding Leads

Explore additional funding opportunities from federal government agencies:





# INFORMATION RESOURCES (Clean Cities)



[Grants.gov](http://Grants.gov)



[Recovery.gov](http://Recovery.gov)



[Department of Energy  
\(DOE\)](http://Department of Energy)



[Environmental  
Protection Agency  
\(EPA\)](http://Environmental Protection Agency)



[Department of  
Transportation \(DOT\)](http://Department of Transportation)



[Department of  
Agriculture \(USDA\)](http://Department of Agriculture)

## FEDERAL CLEAN AIR VEHICLE FUNDING SOURCES

The East Bay Clean Cities Coalition provides the latest information on funding for alternative fuel vehicles (AFV) and related clean air projects.



Search for funding opportunities for alternative fuel vehicle (AFV) and other related clean air vehicle and transportation projects using the links provided. You may also search for related laws and regulations using the the Laws and Incentives link. You may wish to bookmark this page or add it to your "favorites" to make it easier for you to check back often for the latest updates. This page is updated regularly as we become aware of the latest funding opportunities. While you are here, please subscribe to our East Bay Clean Cities electronic newsletter to remain up to date on all the latest funding opportunities and consider subscribing to the various funding advisories and DOE national Clean Cities newsletters using the convenient links provided below:

## STAY UP TO DATE ON THE LATEST AFV NEWS

You may subscribe to various funding advisories and DOE national/local East Bay Clean Cities newsletters using the links provided below:

- ♦ [FREE- Subscribe to East Bay Clean Cities e-bulletins](#)
- ♦ [FREE- Subscribe to DOE Clean Cities Now newsletter](#)
- ♦ [FREE- Subscribe to monthly "Solicitations" email advisory bulletin](#)  
(to subscribe send blank email using link above)
- ♦ [FREE- Subscribe to US EPA funding email notifications](#)
- ♦ [FREE- Subscribe to CA Energy Commission ARRA list serve](#)
- ♦ [FREE- Subscribe to CA Energy Commission solicitations list serve](#)
- ♦ [FREE- Subscribe to CA Air Resources Board list serves](#)

[www.cleancitieseastbay.org/federal.html](http://www.cleancitieseastbay.org/federal.html)



# INFORMATION RESOURCES (AFDC)

## Alternative Fuels & Advanced Vehicles Data Center

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



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

[Printable Version](#)



### Alternative Fuel Portals

- [Biodiesel](#)
- [Electricity](#)
- [Ethanol](#)
- [Hydrogen](#)
- [Natural Gas](#)
- [Propane](#)

[More Fuels Information >](#)



### Vehicle Information

- [Conversions](#)
- [Electric Drive Vehicles](#)
- [Emissions](#)
- [Fuel Economy](#)
- [Idle Reduction](#)

[More Vehicle Information >](#)



### AFDC Tools

- [Light-Duty Vehicle Search](#)
- [Heavy-Duty Vehicle Search](#)
- [Alternative Fueling Station Locator](#)
- [Incentives & Laws Search](#)
- [Publications Search](#)
- [State Information](#)

[More Tools >](#)

[Search Help >](#) [More Search Options >](#)

[Site Map](#)  
[EERE Information Center](#)

#### NEWS

[Waste to Wheels Document Outlines Advantages of Renewable Natural Gas >](#)  
June 23, 2011

[More News >](#)

[Learn About Our !\[\]\(d804a91daaf34ac48e290b168357cce4\_img.jpg\) RSS Feed >](#)

[Subscribe to EERE News Updates >](#)

#### EVENTS

[FedFleet 2011 >](#)  
07/26/2011 - 07/28/2011

[More Events >](#)

#### FEATURES



##### ARRA Plug-In Electric Vehicle Projects >

See the status of Recovery Act projects in your area.



##### Clean Cities MotorWeek Videos >



##### Clean Cities Funding Opportunity >

SAE 2012  
School Bus  
Powertrain  
Innovation  
Symposium



SAE International

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

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# GRANTS.GOV

The screenshot shows the Grants.gov website. At the top, there's a header with the U.S. Department of Energy logo and the text 'U.S. Department of Energy Energy Efficiency and Renewable Energy'. To the right is the 'Clean Cities' logo. Below the header is a large blue banner with 'GRANTS.GOV' in white. The main content area has a white background. On the left is a sidebar with a red header 'FOR APPLICANTS' and a list of links: 'Applicant Login', 'Find Grant Opportunities', 'Get Registered', 'Apply for Grants', 'Track My Application', 'Applicant Resources', 'Search, FAQs, Userguides and site information'. Below this is a section 'FOR GRANTORS' with links 'ABOUT GRANTS.GOV', 'HELP', 'CONTACT US', and 'SITE MAP'. The main content area has the Grants.gov logo and the tagline 'Find. Apply. Succeed.'. Below this is a paragraph about the site's purpose and a link to 'Learn more'. Another paragraph states that the site does not provide personal financial assistance and provides links to 'Government Benefits', 'Student Loans', and 'Small Business Start-up Loans'. A section titled 'What's New at Grants.gov' lists several updates, including a rejection of submissions from organizations with expired CCR registration, a new webcast on grant fraud, new opportunities this week, OMB memoranda for the use of Grants.gov by federal agencies, an FRS Role-Based Training Webinar for FFATA Sub-Award Reporting, a review of security build updates, and a verification of Adobe Reader version compatibility.

**System Downtime April 28-29, 2012**  
Grants.gov will be unavailable for scheduled maintenance April 28-29, 2012. Read the [Grants.gov Blog](#) for more information.

**FOR APPLICANTS**

- Applicant Login
- Find Grant Opportunities
- Get Registered
- Apply for Grants
- Track My Application
- Applicant Resources
- Search, FAQs, Userguides and site information

**FOR GRANTORS**

- ABOUT GRANTS.GOV
- HELP
- CONTACT US
- SITE MAP

**Find. Apply. Succeed.**

Grants.gov is your source to FIND and APPLY for federal grants. The U.S. Department of Health and Human Services is proud to be the managing partner for Grants.gov, an initiative that is having an unparalleled impact on the grant community. [Learn more](#) about Grants.gov and determine if you are eligible for grant opportunities offered on this site.

Grants.gov does not provide personal financial assistance. To learn where you may find personal help, check [Government Benefits](#), [Student Loans](#) and [Small Business Start-up Loans](#).

**What's New at Grants.gov**

- Grants.gov to actively reject submissions from organizations with expired CCR registration.
- Grants.gov Webcast on Grant Fraud is now available online
- New Opportunities This Week
- OMB Memoranda for the Use of Grants.gov by the Federal Agencies
- FRS Role-Based Training Webinar for FFATA Sub-Award Reporting
- Review the Security Build Updates and Their Impact on You
- Verify if your Adobe Reader Version is Compatible with Grants.gov



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# INFORMATION RESOURCES

## SUSCRIBE

–**“Clean Cities Now” & local coalition newsletters (free)**

<http://www.afdc.energy.gov/cleancities/ccn/>

–**“Solicitations” newsletter monthly (free)**

Email to: [subscribe-funding@listserv.energy.wsu.edu](mailto:subscribe-funding@listserv.energy.wsu.edu)

–**“National Idling Reduction Network News” monthly (free)**

Email “subscribe” to: [tlevinson@anl.gov](mailto:tlevinson@anl.gov)

–**“Fleets & Fuels” bi-weekly e-newsletter (\$397/yr)**

<http://www.fleetsandfuels.com/index.html>





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# SUCCESS!





## Extra Credit!

### Don't Overlook Tax Credits/Rebates

- **PEV's- IRS Form 8834/8936/8910?**
- **Infrastructure- IRS Form 8911**
- **Alternative/renewable fuel credits?**
- **Changes frequently**

#### **Tips:**

- **Public/private partnerships may allow taking of tax credits**
- **Include as specific language in contract or specifications**
- **Read and become familiar with IRS alt fuel vehicle/fuel instructions**



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# More resources on following slides:

Richard Battersby, CAFM, CPFP  
East Bay Clean Cities Coalition

## [www.cleancitieseastbay.org](http://www.cleancitieseastbay.org)

UC Davis- [rebattersby@ucdavis.edu](mailto:rebattersby@ucdavis.edu)

# More resources on following slides:







## BE PREPARED TO CALCULATE EMISSIONS

- <http://www.epa.gov/cleanenergy/energy-resources/calculator.html>
- <http://www.afdc.energy.gov/afdc/vehicles/emissions.html>
- <http://www.fueleconomy.gov/feg/findacar.htm>
- <http://rideshare.511.org/calculator/>
- <http://www.epa.gov/oms/climate/420f05001.htm>
- <http://www.arb.ca.gov/msprog/bus/manualcalc.htm>
- <http://www.arb.ca.gov/msprog/onrdiesel/calculators.htm>
- [http://www.arb.ca.gov/msei/onroad/latest\\_version.htm](http://www.arb.ca.gov/msei/onroad/latest_version.htm)
- <http://www.arb.ca.gov/msprog/onroad/cert/cert.php>
- [http://www.transportation.anl.gov/modeling\\_simulation/AirCred/index.html](http://www.transportation.anl.gov/modeling_simulation/AirCred/index.html)
- [http://greet.es.anl.gov/carbon\\_footprint\\_calculator](http://greet.es.anl.gov/carbon_footprint_calculator)



# LINKS

- **Federal**

<http://www.grants.gov/>  
<http://www.fbo.gov>  
<http://www.recovery.gov>  
<http://www.irs.gov/>

- **DOE specific**

<http://www.energy.gov/recovery/funding.htm>  
<http://www1.eere.energy.gov/wip/eeecbg.htm>  
<http://www.energy.gov/recovery/index.htm>  
<http://www1.eere.energy.gov/recovery/>

- **Alternative Fuels Data Center**

[http://www1.eere.energy.gov/cleancities/financial\\_opps.html](http://www1.eere.energy.gov/cleancities/financial_opps.html)  
<http://www.afdc.energy.gov/afdc/states/>

- **State Organizations**

- State Energy Offices**

<http://www.naseo.org/members/states/default.aspx>

- Metropolitan Planning Organizations**

[http://www.bts.gov/external\\_links/government/metropolitan\\_planning\\_organizations.html](http://www.bts.gov/external_links/government/metropolitan_planning_organizations.html)



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## **American Public Works Association (APWA)**

<http://www.apwa.net/>

## **National Conference of State Fleet Administrators (NCSFA)**

<https://www.ncsfa.net/>

## **NAFA Fleet Management Association**

<http://www.nafa.org/>

## **Association of Equipment Management Professionals (AEMP)**

<http://www.aemp.org/>

## **Rocky Mountain Fleet Managers Association (RMFMA)**

<http://www.rmhma.org/>







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## **NATIONAL BIODIESEL BOARD (NBB)**

<http://www.biodiesel.org/>

## **ETHANOLRETAILER.COM**

<http://www.e85fuel.com/index.php>

## **ALTERNATIVE FUEL PRICING**

[http://www.eere.energy.gov/afdc/price\\_report.html](http://www.eere.energy.gov/afdc/price_report.html)

<http://gasprices.mapquest.com/index.jsp>

## **BAF TECHNOLOGIES- EPA/CARB, CNG/LPG (Ford & GM)**

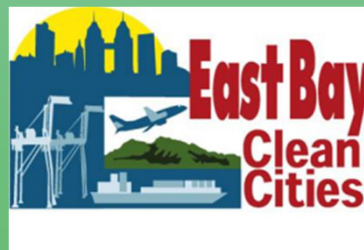
<http://www.baftechnologies.com/index.htm>

## **BAYTECH CORP- EPA/CARB, CNG/LPG (mostly GM)**

<http://www.baytechcorp.com/>

## **CONVERSION AND OTHER VENDORS IN GENERAL**

<http://www.eere.energy.gov/afdc/progs/related2.php>





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## **DOE**

<http://www1.eere.energy.gov/cleancities/>

<http://www.doe.gov/energyefficiency/transportation.htm>

<http://www1.eere.energy.gov/vehiclesandfuels/>

## **EPA**

<http://www.fueleconomy.gov/>

## **Alternate Fuel Vehicle Institute (AFVi)**

<http://www.afvi.org/>

## **HybridCars.com**

<http://www.hybridcars.com/frontpage>

## **NGVC**

<http://www.ngvc.com/>

