

AFDC Review and New Projects

Margo & Wendy

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How we can keep you engaged for an hour?

- Recent changes
- Coming soon
- Need your input

LD Diesel Enhancements

- Made ULSD more visible
 - Unique heading in the fuels section
 - What is, Production, Distribution, Benefits, R&D, Related Links
 - www.eere.energy.gov/afdc/fuels/index.html
 - Other *diesel* fuels in emerging fuels section
 - HDRD, F-T, CTL
 - Light-duty diesel vehicles under diesel vehicles
 - General info, emissions, federal incentives
 - <http://www.eere.energy.gov/afdc/vehicles/index.html>

AFDC: Light-duty Diesel

The image displays three overlapping screenshots of the AFDC website. The top-left screenshot shows the 'Ultra-Low Sulfur Diesel' page, which defines ULSD as diesel fuel with 15 ppm sulfur content and lists related links like 'Production' and 'Distribution'. The top-right screenshot shows the 'Emerging Fuels' page, listing fuels like Biobutanol, Biogas, and Biomass to Liquids. The bottom screenshot shows the 'Light-Duty Diesel Vehicles' page, which explains that these vehicles can run on biodiesel blends and lists categories like 'Emissions' and 'Fuel Economy'. The website header includes 'U.S. Department of Energy Energy Efficiency and Renewable Energy' and 'Alternative Fuels & Advanced Vehicles Data Center'.

Coming Soon....

- Urea locator
- LD diesel content

RSS Feed – are you signed up?

- Really Simple Syndication (RSS) is a way to gather key topic info directly from a news source to your desktop.
- Goal is to attract RSS readers to the AFDC for more information.
- RSS feed from AFDC features items about the Data, Analysis, and Trends page, Fleet Experiences, News Items, and Documents.
- Directions for signing up for AFDC's RSS feed at http://www.eere.energy.gov/afdc/rss_feed.html

RSS Feed

Alternative Fuels & Advanced Vehicles Data Center

News

RSS Feed

Stay connected with the Alternative Fuels and Advanced Vehicles Data Center (AFDC) and Clean Cities Web sites through RSS (Really Simple Syndication). RSS is a convenient way to automatically track new information posted online.

How do I use RSS?

The first step in using RSS is choosing a feed reader. Also known as news aggregators, these programs are available online and are free to download. A list of free readers is available in [Google's News Reader Directory](#), plus many Web browsers have integrated feed readers.

Once you have a reader in place, subscribe to RSS feeds on your favorite Web sites. Your news reader will then automatically check your RSS feeds for new items. When found, it will list them in an easy-to-scan format. If an item is of interest to you, click on it to read it in full.

How do I subscribe to the AFDC RSS feed?

When your reader is in place, click the orange XML button below to open the AFDC RSS feed. If your news reader is configured to open feeds automatically, news should automatically pop up in the reader. However, if you see code in your browser, copy the AFDC RSS feed URL (<http://www.eere.energy.gov/afdc/rss/rss.xml>), open your reader, and paste it into the subscription field.

Subscribe to the AFDC RSS feed: [XML](#)

Printable Version

Microsoft Windows taskbar: 9:28 AM, Thursday, 2/28/2008. Open applications: Microsoft Outlook, My Documents, Microsoft PowerPoint, Alternative Fuels and...

RSS Feeds on AFDC

The screenshot shows the RssReader 1.0.88.0 application window. The interface includes a menu bar (File, Edit, View, Go, Tools, Help), a toolbar with icons for Get, Add, Group, Edit, Clear, and Delete, and search filters for Type, Date filter, and Keyword. On the left, a 'feeds' list contains various news sources, with 'AFDC RSS Feed (4)' selected. The main area displays a table of RSS feed items:

R	I	Headlines	Received dates	Published dates	Author
		Clean Renewable Energy Bonds To Fund Energy Projects	2/25/2008 9:21 AM	2/24/2008 10:00 AM	
		Data, Analysis & Trends on AFDC Web site Offers Statisti...	2/25/2008 9:21 AM	2/24/2008 10:00 AM	
		CNG and Propane Deliver for UPS	2/25/2008 9:21 AM	2/24/2008 10:00 AM	
		Making the Case for Installing E85 at Retail Stations	2/12/2008 11:31 AM	2/10/2008 10:00 AM	
		Compare Quarterly Prices for Alternative Fuels	2/12/2008 11:31 AM	2/10/2008 10:00 AM	

Below the table, the application shows a detailed view of the selected item, titled 'AFDC RSS Feed'. The main content area displays the following text:

Clean Renewable Energy Bonds To Fund Energy Projects

The Internal Revenue Service has announced 312 projects eligible to be financed with tax-credit bonds under the Clean Renewable Energy Bonds (CREB) program. CREBs pay the bondholders by providing a credit against their federal income tax rather than paying interest. In effect, the CREBs will provide interest-free financing for certain renewable energy projects.

2/24/2008 10:00 AM

[Read more](#) | [Open in browser](#)

Biomass Information Center

- Emphasis on production and upstream issues
- Includes energy balance items

The screenshot displays the 'Alternative Fuels and Advanced Vehicles Data Center' website, specifically the 'Ethanol' section. The page is viewed in Microsoft Internet Explorer. The header includes the U.S. Department of Energy logo and the text 'Energy Efficiency and Renewable Energy'. The main navigation bar lists categories: About the AFDC, Fuels, Vehicles, Fleets, Incentives & Laws, Data, Analysis & Trends, Information Resources, and Home. The 'Ethanol' section features a large image of corn cobs and a sidebar with a table of contents including Basics, E85, Blends, Feedstocks, Production, Distribution, Stations, Incentives & Laws, Publications, and Related Links. The main content area contains a paragraph about the site's purpose, a 'Printable Version' link, and a 'Stations' section with a list of links: Locations, Infrastructure Development, E85 Fuel Retailers Business Case, and UL Technology Bulletin. A 'Vehicles' section is also visible. The right sidebar includes a search bar, a site map, and several featured content boxes: NEWS, EVENTS, FEATURES, E85 Fleet Toolkit, UL E85 Fuel Dispenser Listing, Clean Cities, and Biomass Program. The Windows taskbar at the bottom shows the Start button, several open applications, and the system clock indicating 10:31 AM on Thursday, 2/28/2008.

State Bioenergy Assessment Tool

- Sponsored by EPA and Biomass Program
- State-by-State overview of current statistics indicating potential biomass production and potential use
- Users can enter scenarios to calculate biomass production in 2005, 2009 and 2012.
- Calculations are used to predict number of fueling stations required for various amounts of fuel

State Bioenergy Assessment Tool



U.S. Department of Energy
Energy Efficiency and Renewable Energy *Bringing you a prosperous future where energy is clean, abundant, reliable, and affordable*



EERE Home

Alternative Fuels & Advanced Vehicle Data Center

State Bioenergy Assessment Tool

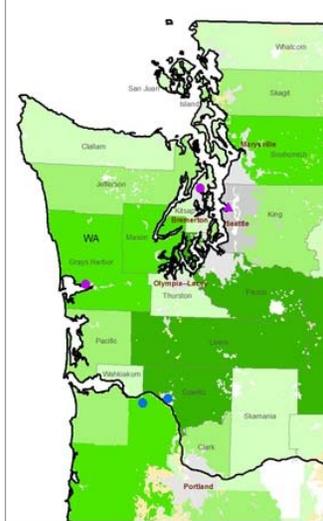
◀ Help ◀ Choose a new state

Current Situation in Washington	
Gasoline Use	54,322,788 gal.
Diesel use	32,456,788 gal.
FFVs	34,566
Total Biomass	4,567,988 dry T
E85 Stations	13
Biodiesel Stations	15
Ethanol Plants	1
Total Ethanol Production	13,000,000 gal.
Biodiesel Plants	2
Total Biodiesel Production	70,000 gal.

Potential Production	
Technology Scenario	Million Gallons
<input type="button" value="Pick"/> Ethanol from Biomass	74.3
<input type="button" value="Pick"/> Ethanol from Corn	12.1
Total Ethanol	86.4
<input type="button" value="Pick"/> Biodiesel from Oil Seeds	1.2
<input type="button" value="Calculate"/>	
Petroleum Displacement Result	
% gasoline use replaced by ethanol	54
% diesel use replaced by biodiesel	12
Co-Product Production	
Electricity	36 MWh
Animal Feed	45 Million Tonnes

DRAFT MOCKUP - 07/23/07

Potential Production		Potential Use			
Biomass (Thousand tonnes/year/county)					
	0	1-100	100-250	250-500	> 500
Crops and Crop Residues					
Forest and Primary Mill Residues					
Urban Wood and Secondary Mill Residues					
Facilities		Active	Under Construction	States	WA
Ethanol Biorefinery					
Biodiesel Production Facility					



Alternative Fuels & Advanced Vehicle Data Center

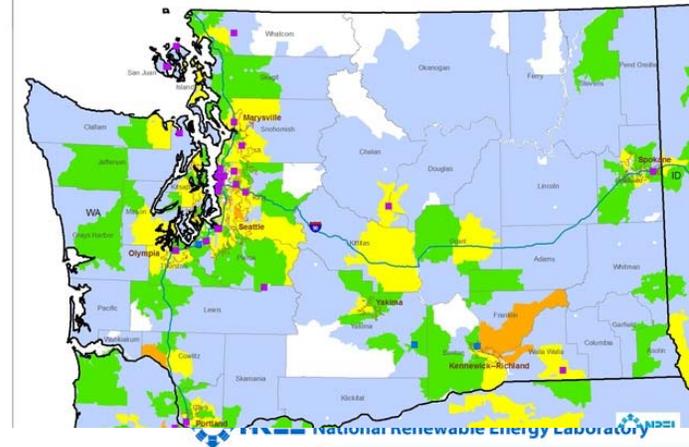
State Bioenergy Assessment Tool

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Potential Use		
Enter %	Utilization of E85 Vehicles	3.5
<input type="button" value="Blend"/>	Biodiesel in Diesel	2.1
<input type="button" value="Calculate"/>		
Number of New Stations Required:		
E85		154
Biodiesel		23

Potential Production		Potential Use				
	0	1-100	100-250	250-500	500-1000	> 1000
Flexible Fuel Vehicle Registrations Per Zip Code						
E85 Refueling Stations		States	WA	Major Interstates		
Ethanol		Counties	King			
Biodiesel		Urban Areas	Seattle			



Expected in April



EERE Home

Refueling Station Locator Enhancements - Soon

- Using Google maps
 - Ensure latest geographic updates
 - Familiar format to users
- Two search levels
 - Basic: address or city search and radius
 - Advanced: state search, public/private
- Umbrella for all technologies
 - Initial: alternative fuels
 - Later this FY: diesel exhaust fluid, truck stop electrification

AFDC Refuel Locator

Alternative Fuels and Advanced Vehicles Data Center: Alternative Fueling Station Locator - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites RSS Print Mail News RSS Settings

Address http://eeredev.nrel.gov/afdc/stations/find_station.php Go

Google Go ABC Check Look for Map AutoFill Send to Settings

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**

First: Select one or more fuels

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

Second: Enter an Address, City, State, or Zip Code

Show stations within mile radius

Results 1 - 6 of 6 near santa fe

- A** **Amigo Mart** 1229 Cerrillos Road Santa Fe, NM 87505
Phone: 505-954-4522
Fuel: Biodiesel
Distance: 1 miles
- B** **Amigo Mart** 1229 Cerrillos Road Santa Fe, NM 87505
Phone: 505-954-4522
Fuel: E85 Ethanol 85 percent
Distance: 1 miles
- C** **AmeriGas** 17818 US 84-

Map Satellite Hybrid

State Snapshots & Web Pages

- Intro paragraph – general state transportation info
- Basics - number and type of vehicles covered under EPACT; fuel availability and use
- State Incentives – pulls from database
- Stations & TSE – pulls from database
- Fleet Experiences
- Biomass Production and Use
- Clean Cities – paragraph on the coalition and contact info
- SEO Contacts

What would be useful to you and how would you use it?

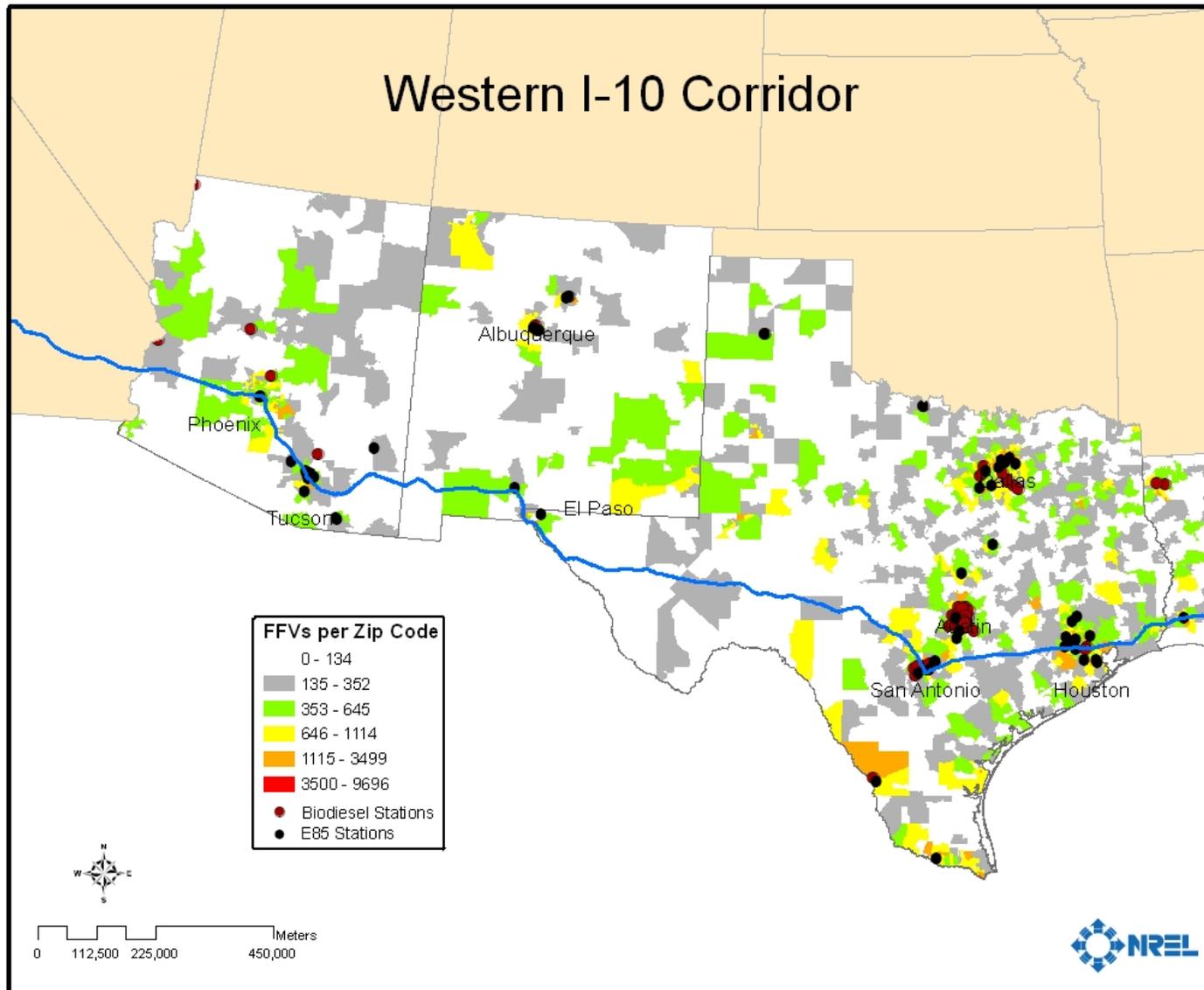
Other AFDC Happenings

- Refueling site locator
- Laws and Incentives
- State legislative activity trial
- Local Challenges
- Technology Bulletins
 - UL
 - FFV Conversions
- HEV Cost Calculator updated
 - 2008 MY data loaded
- Initiating updates to the Natural Gas Technology Forum website
 - Clean up old content
 - Search for relevant new technical items
- Emissions website enhancements
- Most used documents page on the Toolbox

New Publications

- E85 Business Case Fact Sheet – February 2008
- E85 Handling and Use Handbook – April 2008
- Biodiesel Blends Fact Sheet – April 2008
- E85 Station Cost Report – March 2008
- Excise Tax Fact Sheet – April 2008
- CCN – January and April 2008
- Natural Gas Fact Sheet – April 2008
- FFV Conversion Fact Sheet – April 2008
- Colorado E85 Case Study – February 2008

ArcGIS Mapping and Analysis



Tiger Team Re-compete

- Solicitation Document (RFP) to be issued in the next two weeks; Subcontracts to be awarded July 2008.
- Seeking Tiger Teams for
 - Technical support
 - Workshops
 - Creating models for analysis
 - Policy analysis
 - Locating infrastructure based on traffic patterns and regulatory limitations

Open Items/Feedback

- MY08 vehicle list – output ideas
- Heavy duty interface changes
- Clean Cities Now
 - Tradeoff between CCN and other documents
- Survey Re-vamp
 - Working with PMCs to re-scope and re-code the survey and reports. Send thoughts, problems, suggestions to your PMC

HEV Cost Calculator Tool

Alternative Fuels & Advanced Vehicles Data Center

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

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

Alternative & Advanced Vehicles



- Vehicle Make & Model Search**
- Flexible Fuel Vehicles**
- Natural Gas Vehicles**
- Propane Vehicles**
- Hybrid Electric Vehicles**
 - Basics
 - Availability
 - Cost Calculator
 - Incentives & Laws
 - Publications
 - Related Links
- Plug-in Hybrid Vehicles**
- Electric Vehicles**
- Fuel Cell Vehicles**
- Diesel Vehicles**
- Conversions**
- Resale**
- Technician Training**
- Idle Reduction**
- Fuel Economy**
- Emissions**

HEV Cost Calculator Tool

Fleet Comparison

[Methodology](#) | [Single Car Tool](#)

Are you wondering how replacing a percentage of your fleet with hybrids would affect your bottom line, or your region's air quality? The *HEV Fleet Cost and Benefit Calculator Tool* will allow you to compare the lifetime costs and emissions of a fleet of hybrids versus a fleet of conventional vehicles.

In the first menu, you will choose up to five hybrid vehicles and the comparison conventional fleet vehicles they will replace. If you would like to select a different fleet vehicle, [click here](#) or on the enter your own link below. Emissions data are available for the list of default 2007 model year fleet vehicles. In all cases, you can override the default cost values, which are projections from national fleet data, with your own localized information.

Please click on the field names to get more information where applicable.

Step 1: Choose your vehicles or [enter your own](#) for comparison

Models (choose up to 5)

	Make	Model	Engine/Transmission	Emissions Level
Model 1 Hybrid	<input type="text" value="Honda"/>	<input type="text" value="Civic"/>	<input type="text" value="4 cyl, 1.3L, Auto (5), 2WD"/>	<input type="text" value="Tier 2 Bin 2 / P"/>
Model 1 Conventional	<input type="text" value="Honda"/>	<input type="text" value="Civic"/>	<input type="text" value="4 cyl, 1.8L, Auto (5), 2WD"/>	<input type="text" value="Tier 2 Bin 5 / U"/>
Model 2 Hybrid	<input type="text" value="Chevrolet"/>	<input type="text" value="Tahoe"/>	<input type="text" value="8 cyl, 6.0L, Auto (4), 2WD"/>	<input type="text" value="Tier 2 Bin 5 / L"/>
Model 2 Conventional	<input type="text" value="Chevrolet"/>	<input type="text" value="Tahoe"/>	<input type="text" value="8 cyl, 4.8L, Auto (4), 2WD"/>	<input type="text" value="Tier 2 Bin 5 / L"/>

Choose Single Vehicle of Fleet Tool for multiple vehicles comparison

AFDC: HEV Cost Calculator - Microsoft Internet Explorer

Address: http://www.eere.energy.gov/afdc/hev_calculator/fleet3.php

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Alternative & Advanced Vehicles

Search Help | More Search Options | Site Map | EERE Information Center

[Methodology](#) | [Single Car Tool](#)

HEV Cost Calculator Tool Fleet Comparison

Step 3: Further Customize Vehicle Information

*Learn more about the [fuel economy default values](#) and view real-world fuel economy results from test fleets.

Hybrid Models				
Vehicle	Purchase Price	Tax Incentive or Price Discount (\$)	City MPG	Hwy. MPG
Honda Civic	\$23,235.00		40	45
Chevrolet Tahoe	\$50,490.00		21	22

Conventional Models				
Vehicle	Purchase Price	Tax Incentive or Price Discount (\$)	City MPG	Hwy. MPG
Honda Civic	\$15,672.00		25	36
Chevrolet Tahoe	\$30,586.00		14	19

Other Cost Factors

Number of vehicles replaced. incentives, mileage, fuel cost, maintenance

cles

Summary Results:

Savings for Selecting Hybrid

[More Emissions Savings Data](#)

Vehicle	Total CO₂ Savings	Total Lifetime Savings	Per-Mile Savings	Average Annual Savings
Combined Totals	226,382 lbs.	\$-180,754.73	\$-0.47	\$-25,822.10

Hybrid Models Costs

[More Hybrid Emissions Data](#)

Vehicle	Total CO₂ Emissions	Total Lifetime Costs	Per-Mile Costs	Average Annual Costs
Honda Civic	284,288 lbs.	\$779,375.92	\$1.24	\$111,339.42
Chevrolet Tahoe	279,170 lbs.	\$456,501.32	\$1.45	\$65,214.47
Combined Totals	563,458 lbs.	\$1,235,877.24		

Conventional Models Costs

[More Conventional Emissions Data](#)

Vehicle	Total CO₂ Emissions	Total Lifetime Costs	Per-Mile Costs	Average Annual Costs
Honda Civic	412,965 lbs.	\$714,125.93	\$1.13	\$102,017.99
Chevrolet Tahoe	376,875 lbs.	\$340,996.59	\$1.08	\$48,713.80
Combined Totals	789,840 lbs.	\$1,055,122.52		