

# Clean Transportation: Biofuels

Kevin Wood, Coordinator

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# Clean Cities

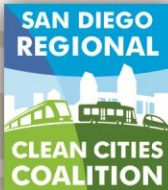
- **U. S. Department of Energy Clean Cities Program**
- **Mission** - To advance the energy, economic, and environmental security of the U.S. by supporting local decisions to reduce petroleum use in transportation.

The San Diego Regional Clean Cities Coalition was established in 1996 to:

- Build partnerships to support clean vehicle deployment
- Promote alternative fuels including: Electricity, propane, natural gas, biodiesel and ethanol
- Help fleets and consumers make informed decisions about fuel technologies



# Board of Directors



# Increasing Use of Alternative Fuels

- Greater availability of vehicles
- Rising price of gasoline and diesel
- Growing concern about the environment & new regs
- More infrastructure to support fleets & consumers





# Clean Cities Resources

U.S. DEPARTMENT OF  
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Energy Efficiency &  
Renewable Energy

Alternative Fuels & Advanced Vehicles Data Center

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

Celebrating 20 Years  
of Alternative Fuel Information

The Alternative Fuels and Advanced Vehicles 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.

State Information



**Tools**

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

[More Tools >](#)



This site is an initiative of the U.S. Department of Energy's [Clean Cities](#) program.

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## VEHICLE TECHNOLOGIES PROGRAM

### Biodiesel Basics

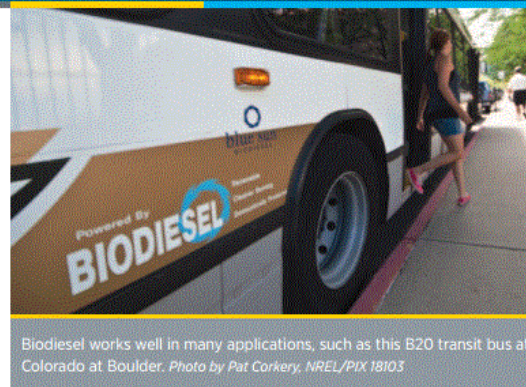
Biodiesel is a domestically produced, renewable fuel that can be manufactured from new and used vegetable oils, animal fats, and recycled restaurant grease. Biodiesel's physical properties are similar to those of petroleum diesel, but it is a cleaner-burning alternative. Using biodiesel in place of petroleum diesel significantly reduces emissions of toxic air pollutants.

### What is a biodiesel blend?

Biodiesel can be blended and used in many different concentrations, including B100 (pure biodiesel), B20 (20% biodiesel, 80% petroleum diesel), B5 (5% biodiesel, 95% petroleum diesel), and B2 (2% biodiesel, 98% petroleum diesel). B20 is a common biodiesel blend in the United States.

### Can I use B20 in my vehicle's diesel engine?

For vehicles manufactured after 1993, biodiesel can be used in diesel engines and fuel injection equipment with little impact on operating performance.



Biodiesel works well in many applications, such as this B20 transit bus at the Colorado at Boulder. Photo by Pat Corkery, NREL/PIX18103

biodiesel blends above B5 in on-highway vehicles manufactured in model year 2007 and later. In these vehicles, high levels of fuel may accumulate in the engine lubricant under certain conditions. It's not known whether those high levels of biodiesel might affect lubricant performance.

Check your OEM's website or speak with a dealer to determine which biodiesel blend is right for your vehicle. You can also find general and manufacturer-specific information on

### Will biodiesel perform as well as diesel?

Engines operating on B20 have similar fuel consumption, torque, and horsepower to engines running on conventional diesel. And a higher cetane number (the ignition value of diesel fuel) and higher lubricity (the ability of fuel pumps and fuel injectors to lubricate) than U.S. diesel fuel. B20's energy content is between those of No. 1 and No. 2 diesel.

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## Clean Cities 2014 Vehicle Buyer's Guide

- Natural Gas
- Propane
- Biodiesel
- Electric
- Hybrid
- Ethanol Flex-Fuel



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## Alternative Fuels Data Center

FUELS & VEHICLES CONSERVE FUEL **LOCATE STATIONS** LAWS & INCENTIVES

Maps & Data

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 station count.

Find Stations Plan a Route

san diego, CA Go

Biodiesel (B20 and above) more search options

**Biodiesel stations near san diego, CA**  
Excluding private stations

**A Pearson Fuel Depot**  
4067 El Cajon Blvd  
San Diego, CA 92105  
Phone: 619-243-0456 888-998-2546  
Fuel: Biodiesel (B20 and above)  
Distance: 4.0 mi

**B Propel Fuels - 76**  
3860 Kearny Mesa Rd  
San Diego, CA 92111  
Phone: 800-871-0773  
Fuel: Biodiesel (B20 and above)  
Distance: 6.8 mi

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## Alternative Fuels Data Center

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### 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 station count.

Find Stations Plan a Route

san diego, CA Go

Ethanol (E85) more search options

**Ethanol stations near san diego, CA**  
Excluding private stations

**A Pearson Fuel Depot**  
4067 El Cajon Blvd  
San Diego, CA 92105  
Phone: 619-243-0456 888-998-2546  
Fuel: Ethanol (E85)  
Distance: 4.0 mi

**B Propel Fuels - 76**  
3860 Kearny Mesa Rd  
San Diego, CA 92111  
Phone: 800-871-0773  
Fuel: Ethanol (E85)  
Distance: 6.8 mi



# Why Biofuels?

- Renewable fuel made from agriculture products (corn, soy) and recycled oils
- Use in existing vehicles
- Domestically produced
- Getting cleaner over time
- Reduces greenhouse gas emissions (GHGs) & tailpipe emissions





# Today's Speakers



- **Andy Christman** is Biodiesel Sales Specialist at New Leaf Biofuels. Andy's work focuses on bringing biodiesel to commercial and industrial sectors as well as fleet implementation.
- **Jorge Parra** is Regional Operations Manager, at Propel Biofuels. Jorge leads the company's efforts to grow the renewable fuels infrastructure in California through renewable fuel sales on both the consumer and fleet levels, cultivating strong relationships with site operating partners, and promoting a positive fueling experience.
- **Michael Lengyel** is a Senior Management Analyst with the City of Chula Vista's Public Works Department. In this role he oversees the budget for the Public Works Operations Division, which includes the City's fleet operations.





# Contact Information

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Clean Cities Coalition**

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