



www.communityfuels.com

AMERICAN BIODIESEL, INC. (DBA) COMMUNITY FUELS

WHO WE ARE:

American Biodiesel, Inc. does business as Community Fuels. We are dedicated to developing a regional and distributed production model for quality biodiesel: a clean, renewable diesel fuel that reduces our dependence on foreign oil, provides jobs in our community, and helps protect our environment. Biodiesel, the nation's fastest growing alternative fuel, is nontoxic and biodegradable. While containing no petroleum, it can be blended at any level with petroleum diesel, creating a biodiesel blend. Community Fuels will produce and sell the highest quality biodiesel, meeting or exceeding the American Testing and Standard Measurements (ASTM) requirements D-6751. Biodiesel is registered with the Environmental Protection Agency (EPA) and the Department of Energy (DOE). It meets clean diesel standards established by the California Air Resources Board.

Community Fuels' primary activities include:

- 1. Production and wholesale of high quality biodiesel**
- 2. Research and development of process technologies and alternative feedstocks**
- 3. Education, outreach and training on the benefits of biodiesel and proper use & handling**

1. PRODUCTION AND WHOLESALE OF HIGH QUALITY BIODIESEL

Primarily our company is focused on designing, building and operating biodiesel production facilities. Community Fuels has designed a proprietary process flow and continues to leverage the expertise of a broad team of specialized engineers. As part of this process, we are also experienced in industrial permitting and environmental health and safety compliance.

The production of biodiesel is a chemical process that replaces the glycerin carbon backbone in any vegetable oil or animal fat with an alcohol, allowing the fuel to be used in a regular diesel engine. To accomplish this, fat or vegetable oil is reacted with an alcohol in the presence of a catalyst to produce glycerin and methyl esters, commonly known as biodiesel.

Any alcohol not fully used in the process is recovered for reuse. The catalyst is usually sodium or potassium hydroxide which may already be mixed with the alcohol. Acids and bases are used to further improve the quality of the products. Community Fuels will produce and test all biodiesel to ensure ASTM quality.

BIODIESEL EMISSIONS COMPARED TO CONVENTIONAL #2 DIESEL ISSUES¹

EMISSION TYPE	B20	B100
Carbon Dioxide	-16% to -19%	-78% to -99%
Unburned Hydrocarbons	-20% to -30%	-67% to -93%
Carbon Monoxide	-12% to -20%	-48% to -50%
Particulate Matter	-12% to -22%	-30% to -47%
NOx	-2% to +2%	+4% to +13%
Sulfates	-19% to -20%*	-98% to -100%
Toxics**	-13% to -50%	-80% to -90%

1. Compiled information from EPA, DOE and NREL

*Estimated from B100 results

** Toxics: Reports vary in their description of toxics tested. Some refer to Toxic HCs, while others refer to PAHs and NPAHs. For simplification, data for each of these have been included under the toxics category.



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2. RESEARCH AND DEVELOPMENT OF PROCESS TECHNOLOGIES AND ALTERNATIVE FEEDSTOCKS

Production process technologies: Although our current plant design uses proven and tested production techniques, we continue to evaluate alternate process designs. Our research on alternate process technologies focuses on techniques that will improve fuel quality, will allow cost effective processing of alternate feedstock and will reduce the energy use and operating costs of the plant. All of our efforts are focused on optimizing production for efficiency, flexibility and safety.

Sustainable feedstock development: Our chemists are exploring use of oil rich feed stocks such as algae and greases to divert waste from our country's landfills and water treatment plants while providing oil for use in biodiesel production. As the biodiesel industry grows, the development of alternative feedstock supplies will become increasingly important. We are starting research on alternative feedstocks now to ensure continued growth of the company.

3. EDUCATION AND OUTREACH ON THE BENEFITS OF BIODIESEL AND TRAINING ON THE PROPER USE & HANDLING OF BIODIESEL:

Education: Diesel exhaust, prices, and availability affect many sectors of our society: construction to marine, agriculture to trucking, and schools to mines. Every sector has different equipment and needs. We tailor our educational fact sheets, and presentations to address the individual sector's needs. Our website provides resources for a variety of audiences: suppliers, fleets of different industries, government, and the general public.

Outreach: Only a small segment of California's agricultural industry currently produces oil crops for biofuels. Community Fuels' outreach to potential producers and users of biodiesel crops and fuel will help develop a healthy industry.

Community Fuels participates actively in several organizations, including the National Biodiesel Board (NBB), the national trade association for the biodiesel industry, and the Apollo Alliance, a consortium of labor, environmental, community, and business representatives working to advance clean energy and good jobs.

Community Fuels is frequently invited to present at public events and is frequently contacted by reporters, legislators, and industries such as trucking, agriculture and construction for local, national and international articles and programs.

Training: Community Fuels will help its customers and future biodiesel distributors implement quality control and quality assurance programs. For our select distributors, we will provide training in areas such as fuel characteristics, blending, additives, and storage.

MORE INFORMATION:

Community Fuels maintains current Biodiesel information and a variety of links at www.communityfuels.com.

If further information is desired, you can email your questions to Community Fuels at info@communityfuels.com.

OUR MISSION STATEMENT

Empower communities with regional production of cost-effective, renewable energy.

Support regional economies by developing easier access to clean energy and by developing regionally appropriate feedstock supplies.

Create a profitable model that may be replicated in domestic and international regions.