



Biodiesel in WNC

August 18, 2014

What Is Biodiesel

- Biodiesel is a renewable, clean-burning diesel replacement that is reducing U.S. dependence on foreign petroleum, creating jobs and improving the environment.



- Compatible with all diesel engines - no modifications needed

Benefits of Biodiesel

- No special handling or storage needed – “drop-in fuel”
- Blends with petroleum diesel from 2% to 99%
- Reduces greenhouse gases and improves air quality
- Biodegradable, non-toxic, and non-carcinogenic
- Improves vehicle performance by cleaning the fuel system
- Higher lubricity extends engine life
- Creates new jobs in North Carolina
- Reduces dependence on foreign oil and increases fuel security
- Is an internationally recognized and regulated fuel

Tips on Using Biodiesel

Biodiesel acts as a solvent and will clean out fuel systems.

- Filter Issues – As the fuel system is cleaned out, diesel particulates can clog fuel filters, leading to increased initial replacement.
- Fuel Line Issues – Biodiesel will degrade some natural rubber hoses that need to be replaced with a Viton or other suitable hose. Most recent vehicle models have compatible fuel lines.

Biodiesel is “new” and many OEMs do not test high blends.

- Warranty Issues – Many manufactures now support blends from B5-B20. No warranty covers the fuel used in an engine!

Biodiesel is made from natural, renewable fats and oils.

- Cold Weather Issues – Biodiesel can gel in cold weather. An anti-gel helps, but B50 is the highest blend for winter in WNC.

Who Is Blue Ridge Biofuels

- **Started in 2005 as a Community Fuel Provider**
 - Fuel made here, sold here, from resources collected here
 - Truly sustainable fuel that is a drop-in replacement for petro diesel
 - Can be used in ANY diesel engine without modifications
 - Better for the environment, better for engines, better for the economy
- **Vertically integrated – 3 companies in 1**
 - Restaurant Service Provider
 - Biodiesel Manufacturer
 - Fuel Distributor
- Growth approximately doubled annually
- **Over 1.6 million gallons B100 sold since 2005 = over 15,000 tons** of CO₂ kept out of the atmosphere



Vetting & Compliance



- BQ9000 Certified Producer
- Living Wage Certified
- Member of the National Biodiesel Board
- Recipient of numerous awards

Three Companies in One

1. Restaurant Service Provider

- Collect used cooking oil from over 550 locations in WNC; Upstate of South Carolina; Virginia, & Tennessee
- Purchase used cooking oil from collectors in Southeast
- Facing increased competition from outside companies

2. Biodiesel Manufacturing Facility

- 1 million gallon capacity
- Production increasing steadily every year
- All fuel meets ASTM specs and is third party tested



3. Fuel Distributor

- Producing 30,000-40,000 gallons B100 monthly
- Sold as blends from B5 to B99
- Half sold to local end-users
- Half sold to SE bulk fuel market
- Seven public fuel stations
- Distributed through 4 WNC-based fuel companies
- Fleets (City of Asheville, Grove Park Inn, Metropolitan Sewerage District, UNC Asheville, Progress/Duke Energy, YWCA, NC DOT)
- Farms (Gaia Herbs, Hickory Nut Gap Farms, Dry Ridge Farm, Warren Wilson, Biltmore Estate)
- Off Road (Tennoca Construction, landscapers, etc)
- Bioheat (over 1000 homes in Asheville area)



Bulk Deliveries



828-253-1034

Retail Pump Locations



www.blueridgebiofuels.com

Pricing

- Competitive to petroleum diesel
- On Road Rack – B99 - \$3.969
- Off Road Rack – B99 - \$3.359

- Federal Biodiesel Tax Credit Expired
– \$1.00/gallon

Partnerships & Collaborations

BRB has been able to expand its involvement in the local community in order to be a more responsible business and to help create green jobs and generate additional revenue for the local economy.

- **Green Jobs Training**
 - **ABCCM**: Trained a total of 52 people in 2 class sessions
 - **GO**: Training and work experience for 3 members in 2012
 - Educational Internship Program: Four Interns in 2013
- **Education and Outreach**
 - Biodiesel presentations for middle and high school students
 - Mentorships for high school and college students
 - Community college biodiesel classes – AB Tech, BRCC, HCC
 - Tours, classes, workshops, and community events
 - Fleet manager outreach/education
 - Automotive technician trainings

Cooking Oil Recycling Program

- Residents can recycle used cooking oil (UCO)
- Keeps UCO out of sewers – less public money
- Low-cost UCO #1 way to reduce fuel costs
- Initially a pilot project in partnership with Metropolitan Sewerage District, Buncombe County Solid Waste, Green Opportunities – funded by Biofuels Center of NC
- 35 used cooking oil bins placed in 7 counties in WNC
- Over 600 gallons collected monthly – Hard to Recycle events
- A way for anyone to participate in the “Local Fuel Economy”
- www.CookingOilRecycling.org



Biodiesel:

Better for the environment

Better for your equipment

Better for the economy



The right choice for WNC



Thank You

Woodrow Eaton
Blue Ridge Biofuels

www.blueridgebiofuels.com

828-253-1034

