

# The Renewable, Environmentally-Friendly Alternative BioHeat™

How can homeowners in New England add eco-sense to their home-heating equation, and make a good change without compromising comfort and budget? Those with oil heat can make a simple change to BioHeat™ fuel. BioHeat™ fuel is a blend of biodiesel (generally made from soybean or other vegetable oils) which is renewable, biodegradable and organic, then blended with heating oil.

BioHeat™ fuel:

- **reduces toxic emissions and greenhouse gases**
- **reduces** our dependence on foreign oil (it is **American-produced**)
- **extends the life of your heating system** (it has cleaning and lubricating properties)
- **reduces service calls**
- **all without making an investment in new heating equipment.**

***“The State of Connecticut.....  
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residential carbon dioxide  
emissions per capita in the nation.”***

## **The need for BioHeat is now!**

A recent environmental report showed the state of Connecticut released 9.4 million metric tons of carbon dioxide from homes in 2003, the second-highest rate of residential carbon dioxide emissions per capita in the nation. According to Chris Nelson, a senior air pollution analyst with Connecticut's Department of Environmental Protection, “These emissions have a lot to do with heating, and we use a lot of oil to heat in Connecticut.” BioHeat™ blend can help us meet our current and future heating needs, while at the same time reducing our emissions of carbon dioxide and other toxins.

The renewable resources used to make biodiesel come from **American crops** such as soybeans, cotton, or from animal fats, or even from reclaimed food service oils. Biodiesel is used as a replacement for, or blended with petroleum (fossil) fuels. Biodiesel fuel is blended with #2 heating oil (a petroleum fuel) to make BioHeat™.

## **Are you concerned?**

Recent headlines concerning the food VS fuel question are sparking worries about lost farmland and rainforests to biofuel production. That is why we encourage people to buy biofuels that are American produced.

The good news is biodiesels can be made from any plant or animal that has fat. Biodiesel crops don't have to be grown on food producing farmland.

There are several plants that are undergoing research, such as carmelina, to be used in biodiesel manufacturing. Camelina, a member of the mustard family is a promising new oilseed variety containing more oil per bushel even than soybeans, and grows on marginal lands not suitable for other crops. Potential sources such as this plant have shown promise to reduce or replace existing sources such as soybeans.

Another new source focus for biodiesel production is algae, grown in open air ponds or tanks, such as sewer treatment plants. The advantage would be to simultaneously get rid of waste and produce a crop, without taking away food production.

And biodiesels provide a 3.5 to 1 energy return; for every unit of energy put into producing it, 3.5 units of power is produced. So, it really is beneficial to replace fossil fuels with biodiesel.

## Quick FAQs

Here are some quick facts about BioHeat™:

- BioHeat™ produces the **same satisfying heat** as petroleum oil
- BioHeat™ **cleans** your heating system for **more efficient burn**, reducing service calls
- **No modifications** to your burner or tank
- **No investment in new equipment**
- BioHeat™ **costs just about the same** as petroleum oil
- **Keep your current budget or other payment plan and service contract**

The use of BioHeat™ as a home heating alternative is common practice in Europe. With the benefits of immediate environmental effects, economic benefits, energy security and enhanced fuel quality, the momentum is building for the use of BioHeat™ here in the United States.

The Central Atlantic and New England states use approximately 75% of the heating oil burned annually in the U.S. By replacing 20% of those fossil fuels with renewable, American produced biodiesel, we could **reduce our nation's total heating oil consumption by 15%**, or an **astounding 22.5 billion barrels annually**.

If everyone using heating oil instead used a B5 blend (5% biodiesel with 95% heating oil), **400 million gallons of regular heating oil could be conserved**. This would be a big step towards conserving oil, and reducing greenhouse gas emissions.

**You can choose this greener, healthier heating product, without sacrificing comfort or budget!**

Intelligent energy choices are available now for a healthier environment, stronger economy, and brighter future for our planet and people. If your home uses oilheat, you can choose this greener, healthier heating product, without sacrificing comfort or budget! Ask for BioHeat™ today!

The choice is yours. 

Jamie & Randy Lohr are owners of Guardian Fuel & Energy Systems, providing home heating oil and BioHeat™ to Southeastern Connecticut and Southern Rhode Island.

For more information on the company and BioHeat™, go to [www.guardianfuel.com](http://www.guardianfuel.com).

Read our other article in the **Article Index** at

[www.firsttimehomebuyeromagazine.com](http://www.firsttimehomebuyeromagazine.com)

in March 2008, "Nontraditional Heating Sources".

# Comfort. Security. Reliability.

When it comes to your home and family, we provide the warmth and safety you need.

- EnergyGuard™ for Oil Stability
- PriceGuard™ for Market Price Protection
- BioHeat for Cleaner Burning, Lower Emissions
- Flexible Payment Options to Fit Your Budget
- 24-Hour Accessibility for Quick Response to Your Needs
- Secure Fuel Supply ~ You Won't be Shut Out in the Cold

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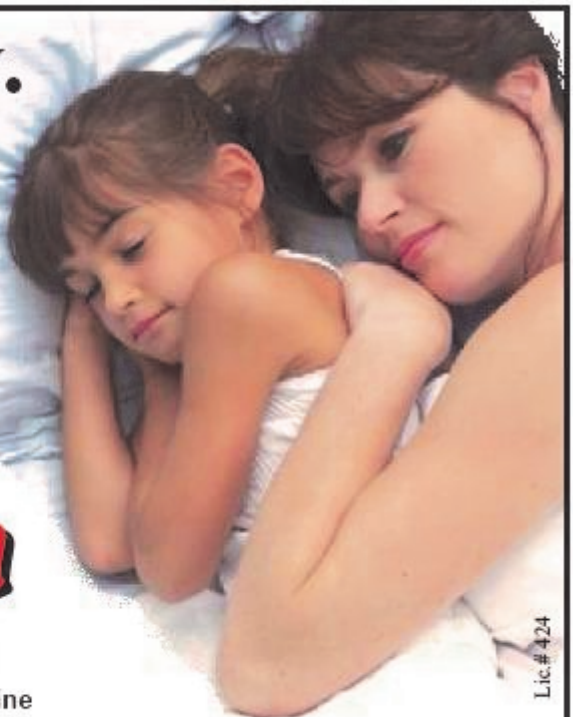
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