

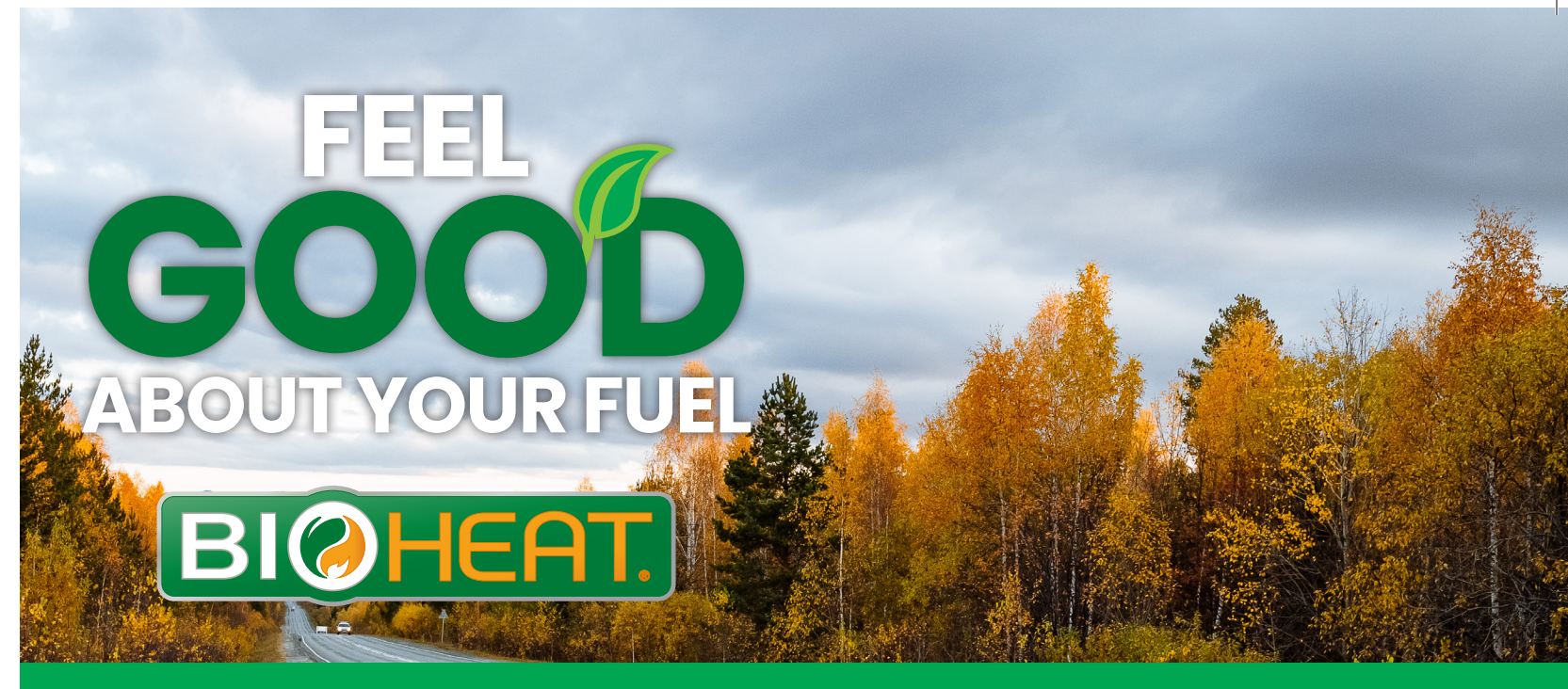
Sponsored by the National Oilheat Research Alliance **NORA**  
NATIONAL OILHEAT RESEARCH ALLIANCE



## ASK THE EXPERT:

### How Does the Transition to Bioheat® Fuel Affect the Economy?

**A:** Great question! You can rest assured that Bioheat® fuel helps support jobs and our local economy. According to Biodiesel.org, the Bioheat® fuel industry employs roughly 60,000 people and counting. By ordering Bioheat® heating fuel from a local energy provider, you are doing your part two-fold to support your community. We appreciate your business!



Dear Valued Customer,

As you've probably already heard, the entire fuel industry has been moving toward an eco-friendly fuel blend to promote sustainability in our local community and throughout the US. As a homeowner or business owner, we know that having an affordable energy supply that promotes a healthier environment is on the top of everyone's list.

Heating your home or business to make it comfortable for your family or customers is likely at the forefront of your mind. We're glad to share with you our alternative heating fuel, Bioheat® fuel, a fuel you can feel good about. The liquid heating fuel we deliver to your oil storage tank is created with a renewable substance called biodiesel. Bioheat® fuel is a blend of ultra-low sulfur heating fuel with biodiesel. If you've never heard of biodiesel, it's a recycled and refined blend of used-waste products, such as soybean feedstock by-product, used cooking oil, and inedible corn oil. These waste products are usable as an energy source, so rather than throwing them away, local businesses are able to sell them to fuel refineries who blend them back into a useful and low-carbon energy source: Bioheat® fuel.

Highly efficient heating systems, like your furnace, boiler, and water heater are able to burn Bioheat® fuel without any expensive conversions or modifications, which makes them stand out from other low-carbon heating options available in our area.

Please browse this newsletter to learn more about Bioheat® fuel, and the advancements it's making in the fuel industry. Hopefully this letter will clear up misconceptions, help you discover exciting benefits, and more. If you have any questions, get in touch with our fuel experts. We're always pleased to speak with you.

### INSIDE THIS ISSUE...

- On the Way to Carbon Neutral with Bioheat® Fuel
- What You Have to Do to Get Bioheat® Fuel
- Feel Good about How You Heat Your Home
- Ask the Expert
- How Is Bioheat® Fuel Made?



## On the Way to Carbon Neutral with Bioheat® Fuel

As the heating fuels industry pledges to reduce emissions, the goal is to reach net-zero emissions completely by 2050, and efforts to make it there are already rolling. Bioheat® fuel and biodiesel are being used to heat homes and businesses and power commercial equipment, while producing significantly fewer emissions.



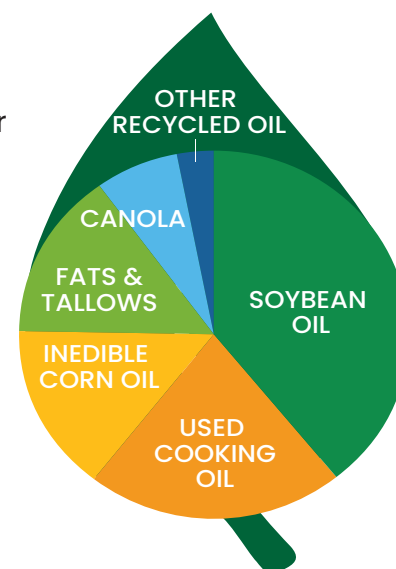
## How Is Bioheat® Fuel Made?

You already know that Bioheat® fuel is a blend of traditional, ultra-low sulfur heating fuel with renewable biodiesel. But, you may be wondering where biodiesel comes from and how exactly it's used to create Bioheat® fuel.

### Where does biodiesel come from?

Biodiesel is made through a chemical process called transesterification with the following steps:

1. Glycerin is separated from the fat or vegetable oil.
2. This process leaves behind two products—methyl esters and glycerin.
3. The remaining glycerin is used in a variety of products, including soap.
4. Then all that's left is methyl esters, the chemical name for biodiesel!



### How does biodiesel blend to make Bioheat® fuel?

Biodiesel is blended with ultra-low sulfur heating fuel to make Bioheat® fuel. There are a variety of Bioheat® fuel blends available right now, ranging from 5% biodiesel (B5 Bioheat® fuel) up to 20% biodiesel (B20 Bioheat® fuel).

### Are there quality standards for Bioheat® fuel?

Absolutely—for a fuel to be called Bioheat® fuel, it can only be made with ASTM D6751 grade biodiesel. ASTM International is a group that sets technical standards for the global industry. Independent studies by the National Renewable Energy Laboratory, Southwest Research Institute, Brookhaven National Laboratory, and the US Department of Agriculture have shown that ASTM-grade biodiesel can blend seamlessly with traditional heating fuel to provide even greater benefits to performance, human health, energy security, and global climate change.

## Feel Good about Your Fuel

Next to significantly reducing impact on the environment in comparison to other heating fuels, you can also feel good about using Bioheat® fuel to heat your home.

### Learn about Bioheat® Fuel's Top Benefits:

- Requires no expensive modifications to your heating system
- Delivered by locally owned and operated heating companies like us
- Easier and more affordable than switching to other energy sources
- Blends will continue to increase biodiesel content to lower carbon emissions in the future
- Made by blending ultra-low sulfur content heating fuel (ULS) with renewable biodiesel

**CONTACT US TO REQUEST A DELIVERY OF THIS LOW-CARBON ENERGY SOURCE!**



## What Do You Have to Do to Get Bioheat® Fuel?

Absolutely nothing! The great news is that you are already receiving Bioheat® fuel delivered to your tank. Getting this eco-friendly fuel doesn't cost anything extra. Plus, your heating equipment doesn't require any expensive modifications to burn Bioheat® fuel. Any high-efficiency water heater, furnace, or boiler can operate on Bioheat® fuel. Whenever it's time for your next refill, just order your fuel like you normally would.

Want to Learn More? **VISIT BETTERWITHBIOHEAT.COM**