

## Contact Information for Green Technologies

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Green Technologies' manufacturing site



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www.greentechvt.com

## For more information about biodiesel/biofuels near you

Green Technologies  
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VT Biofuels Association  
Netaka White, Greg Pahl - Co-Directors  
info@vermontbiofuels.org  
www.vermontbiofuels.org

BioQuantum Energy  
Cavendish, VT  
Dave Bonta - CEO  
cetsolar@vermontel.net  
www.bioquantum.net

Yestermorrow Design School  
Waterbury, VT  
designbuild@yestermorrow.org  
Attn: Ken Oldrid  
www.yestermorrow.org

VT Fuel Dealer's Association  
www.vermontfuel.com

*Green Technologies, LLC*



Earth Friendly Products & Practices

**Biodiesel in Home Heating**



Green Technologies' boiler running 100% biodiesel

## Biodiesel in home-heating

- Biodiesel is a non-toxic alternative to #2 heating oil. #2 heating oil and its combustion byproducts are carcinogenic.
- Biodiesel can be mixed in any proportion with #2 home-heating oil.
- Biodiesel has slightly fewer BTUs than fuel oil, so you should expect to use about 10% more fuel if running B100 (100% biodiesel). However, with B20, BTU content changes by only a few percent.
- Green Technologies has customers using B20-B100 in home-heating and we are currently running our factory boiler on B100.
- Green Technologies can recommend a certified heating technician in your area familiar with biodiesel for heating system modifications and tune-ups.



## Switching to Biodiesel

- Start with a low biodiesel ratio (B5-B10) and increase over time.
- Above B20, the solvent properties of biodiesel become apparent. Particulates released from the fuel system will clog your fuel filter, so you should have an extra on hand.
- Above B40, the fuel pump and hoses will need to be evaluated for material incompatibilities.\* It may also be necessary to change the spray nozzle and add an auxiliary line heater.



\* Please see our "Guide for the Use and Handling of Biodiesel" and/or the website ([www.greentechvt.com](http://www.greentechvt.com)) for more information.

## Oil storage tank location is very important!

**Warm oil storage (above 50°F)**- Biodiesel blending can be done at ambient temperature.\*

**Cold oil storage (35 – 50°F)**- The cloud point of our fuel is about 45°F. There are several options for this type of situation:

1. Insulate the basement to increase the temperature to above 50 °F.
2. Add anti-gel agents to your fuel mixture.\*
3. Add strategic heating to remelt any frozen biodiesel components before reaching the burner.

**Very cold storage (below 35°F)** – Requires a heated fuel storage tank and other strategic heating.

### Prices (Spring 2006)

**Greentech Biodiesel** – \$2.40/gal  
(call for exact price) *for heating use*

Barrel Deposit - \$12.

Optional Delivery - \$10 per barrel (55 gal) for Burlington, South Burlington, Winooski, Essex, Colchester, \$15 other Chittenden county.

We also offer antigel additives and biodiesel accessories. See website for details.