

NEWLEAFBIOFUEL.COM

Biodiesel Today

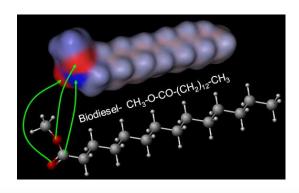
Clean Cities Feb. 11th 2014



What Is Biodiesel?

A renewable fuel comprised of mono-alkyl esters of long fatty acids derived from vegetable oils

Primary U.S. feedstocks Soy beans Canola, Rapeseed Beef tallow UCO



Future feedstocks Algae Jatropha Switchgrass



Biodiesel is a clean burning fuel produced from domestic, renewable resources.





How Is Biodiesel Made?

Inspect and receive UCO

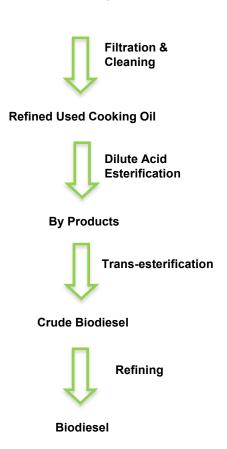
Remove impurities through a four stage filtration process

Dilute Acid Esterfication

Begin the transesterfication

Remove crude Glycerin and Biodiesel

Refine and wash the finished product

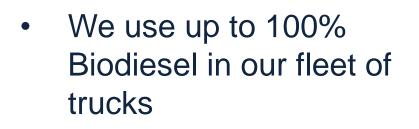


Used Cooking Oil





- Collect used cooking oil from over 900 restaurants locally in San Diego
- 2013 California Restaurant Association Gold Medallion winner









Benefits of Biodiesel

Cleaner, Green Energy

using renewable energy fosters a positive public perception and is 100% Biodegradable

Cost Savings, Safety

efficient fuel economy, increased lubricity, ease of modification, EPACT compliance, airport authority permit compliance, free PR, higher flash point and less conductive than ULSD

Public & Private Sector Support

federal, state & local legislation supports those that adopt biodiesel by offering financial incentives, tax credits

90% of manufacturers offer full-warranties on vehicles using biofuel







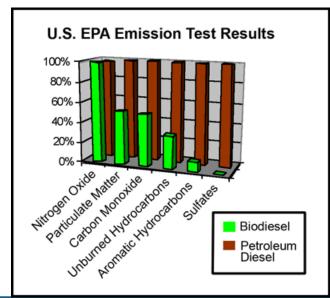
Benefits: Green Energy

Biodiesel reduces greenhouse gases, hydrocarbons and particulate matter

Lower Carbon Footprint Domestically grown and produced Cleaner Emissions

Higher Cetane Value









Biodiesel Benefits

 Diesel engines can use Biodiesel without any changes

Domestically produced







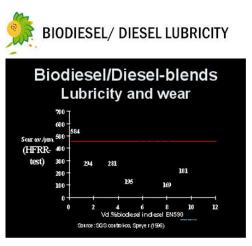




Benefits: Cost Savings

Increased Lubricity

Biodiesel outperforms ULSD #2 in all lubricity tests Correlates to a longer lasting engine with less wear



Ease of Modification

Diesel engines can use Biodiesel with little or no changes Vehicles manufactured prior to 1993 require an inspection of fuel hoses

All AST storage tanks and most existing UST fuel storage tanks can hold biodiesel





Tax Credits & Mandates

Renewable Fuel Standard (RFS 2)

Federal goals to increase renewable fuel production

Low Carbon Fuel Standard (LCFS)

Requires obligated refiners and distributers to use a percentage of renewable fuel to meet greenhouse gas (GHG) target reductions

Blender's Tax Credit

\$1.00 federal tax credit provided when mixed with ULSD

Epact Credits

Also known as Alternative Vehicle Credits, these require certain public and energy utility fleets to buy clean vehicles

C.A.F.E. Credits

Corporate Average Fuel Economy, federally implemented goals to improve the overall fuel economy of vehicles, most light and medium duty Diesel vehicles exceed those targets



Manufacturing Support

More than 90% of HD Diesel engines warranty B20 today



For a complete list of OEM statements visit biodiesel.org

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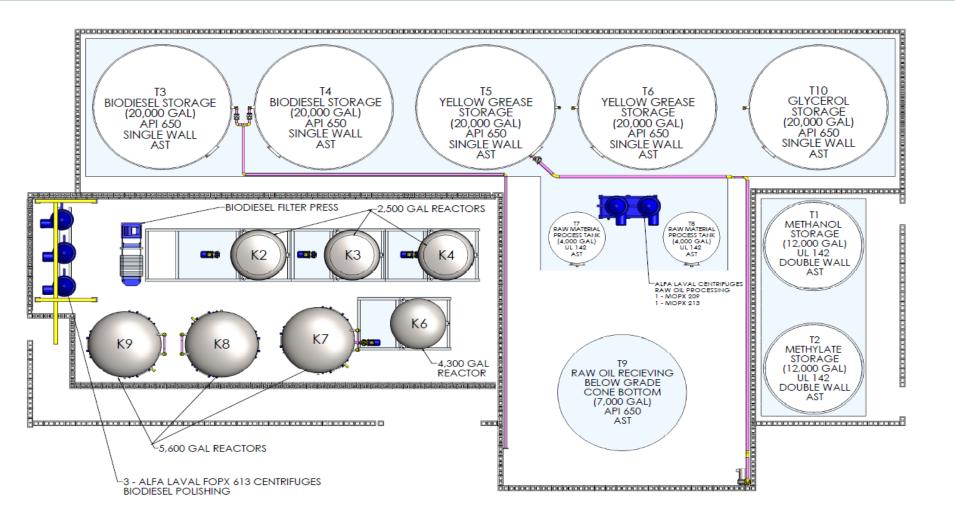
- Start with a clean tank
- Use desiccant breathers
- Use Biodiesel compatible filters
- Retain fuel samples for 3 months
- Sample tank every six months
- Buy from a reputable and consistent source







eaf Detailed Image Of Our Plant



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- Site & tank inspection
- Confirm vehicle warranty
- Engines manufactured before 1993 should have their fuel lines inspected as they used natural rubber as opposed to synthetic.
- Purchase from a consistent and reliable source







Questions?