



ENDER

ESSENTIALLY NON-DEPLETABLE ENERGY RESOURCES

What is ENDER?

- A company formed to build and operate a biodiesel refinery in the Midwest.
- A company devoted to rebuilding America based on energy independence.
- A green technology company devoted to providing cleaner energy solutions for a healthier planet.

What Is Biodiesel?

- A clean burning alternative fuel
- Produced from domestic renewable resources such as virgin soybean oil, canola oil, or even used cooking oil
- Non-toxic and biodegradable
- Excellent for use in fragile environments such as estuaries, lakes, rivers, and national parks
- Used in modern diesel engines with no engine modification required
- Can be blended in any concentration with petroleum diesel : B5, B20, B100

What Is Biodiesel?

- Is essentially free of aromatics
- Safe to work with and is easy to clean up should a spill occur
- Can be seamlessly incorporated into the existing petroleum fuel distribution infrastructure
- Replaces the sulfur lubricating agent in current petroleum diesel fuel that by law must be eliminated by late 2006.

Other Facts About Biodiesel

- Registered as a fuel and fuel additive with the Environmental Protection Agency (EPA)
- Meets clean diesel standards established by the California Air Resources Board (CARB)
- Neat (B100) biodiesel is designated as a alternative fuel by the U.S. Department of Energy (DOE) and the Department of Transportation (DOT)
- Only alternative fuel to have fully completed the health effects testing required by the Clean Air Act

Why Biodiesel Now? Peak Oil

“Every 11.5 days the world consumes one billion barrels of oil”

- Michael C. Rupert 2004

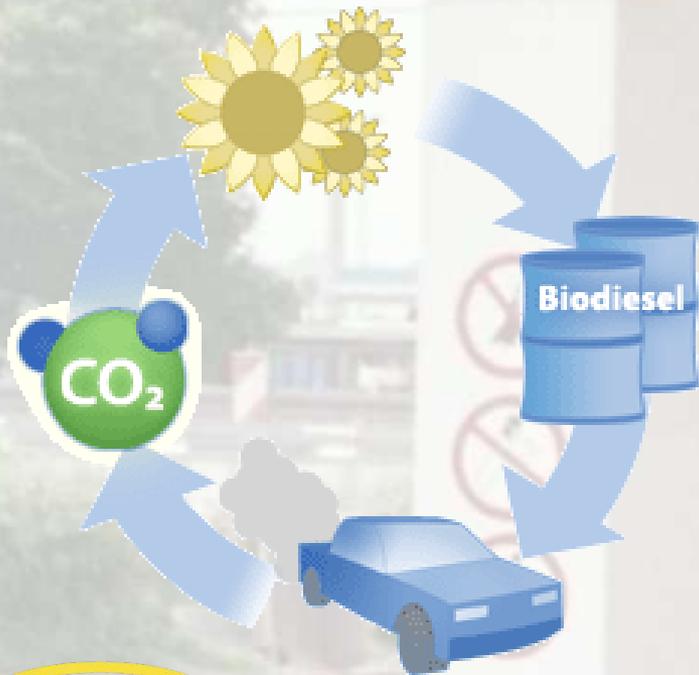
- Responsible estimates indicate that 400 to 600 billion barrels of crude oil remain unexploited
- Some of these resources are unrecoverable because the amount of energy to recover them is greater than the energy these resources could produce — a situation known as “*Peak Oil*”

Why Biodiesel Now?

- Biodiesel has been widely used in Europe over the past 25 years
- Biodiesel improves the quality of the environment by significantly reducing particulates in the air like sulfur which essentially eliminates acid rain

Why Biodiesel Now?

- Diesel engines get better gas mileage and require less maintenance than gasoline engines
- Biodiesel is “greenhouse gas neutral”
- One billion gallons of diesel fuel are consumed annually in Michigan.



Why Biodiesel Now?

“There is no substitute for energy. The whole edifice of modern society is built upon it. It is not just another commodity, but the precondition of all commodities, a basic factor equal with air, weather and earth.”

- E. F. Schumacher 1973

- US oil production peaked in 1972
- The US imports over 70% of it's oil
- There is no producer of biodiesel currently in the State of Michigan

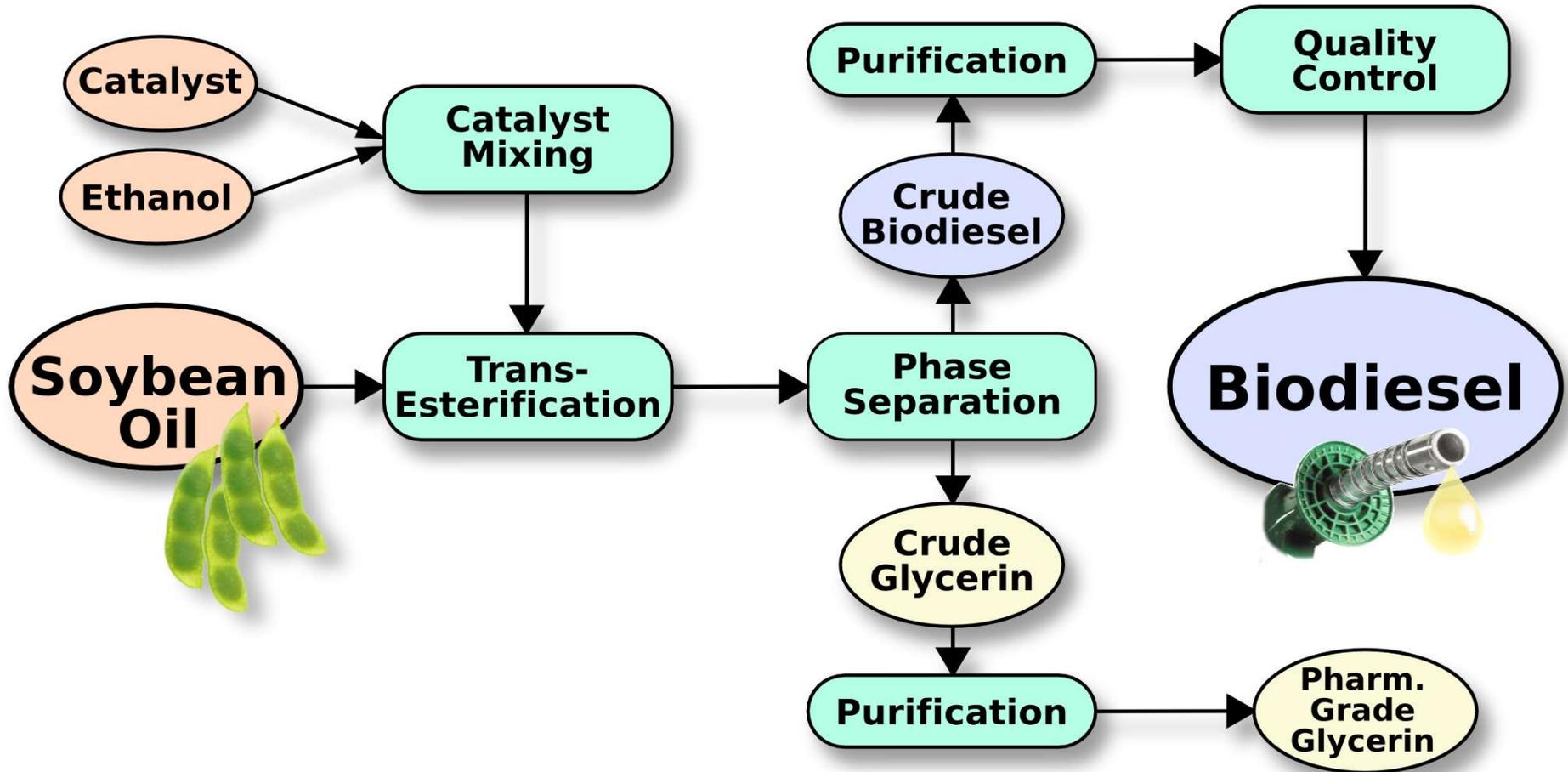
Production of Biodiesel

- Biodiesel production processes are well-known and constitute a fairly low-risk operation
- There are three basic routes to producing biodiesel from oils:
 1. Base Catalyzed Transesterification of the Oil
 2. Direct Acid Catalyzed Transesterification of the Oil
 3. Conversion of the Oil to it's Fatty Acids and then to Biodiesel

Base Catalyzed Transesterification of the Oil

- This is the preferred method of B100 production and will be the method utilized by ENDER. The advantages of this method are:
 - Process is Performed at Low Temperatures and Pressures
 - No Exotic Material Are Used in the Process
 - High Conversion Rate (98%) with Minimal Side Reactions and Minimal Reaction Time

Production of Biodiesel



Biodiesel Processor

- Technology is Well Understood and in Widespread Use
- Compact “Plug and Play” Machinery Design
- Modular Installation/Operation Results in Minimal Manpower and Reduced Overhead Expense
- Able to Easily Expand Production Capacity

Market

- Diesel consumption in US exceeded 60 billion gallons in the past year
- Biodiesel sales have increased from 1 to 25 million gallons in the past 10 years
- ENDER's primary target for sales are fuel blenders in Michigan and surrounding states

Market

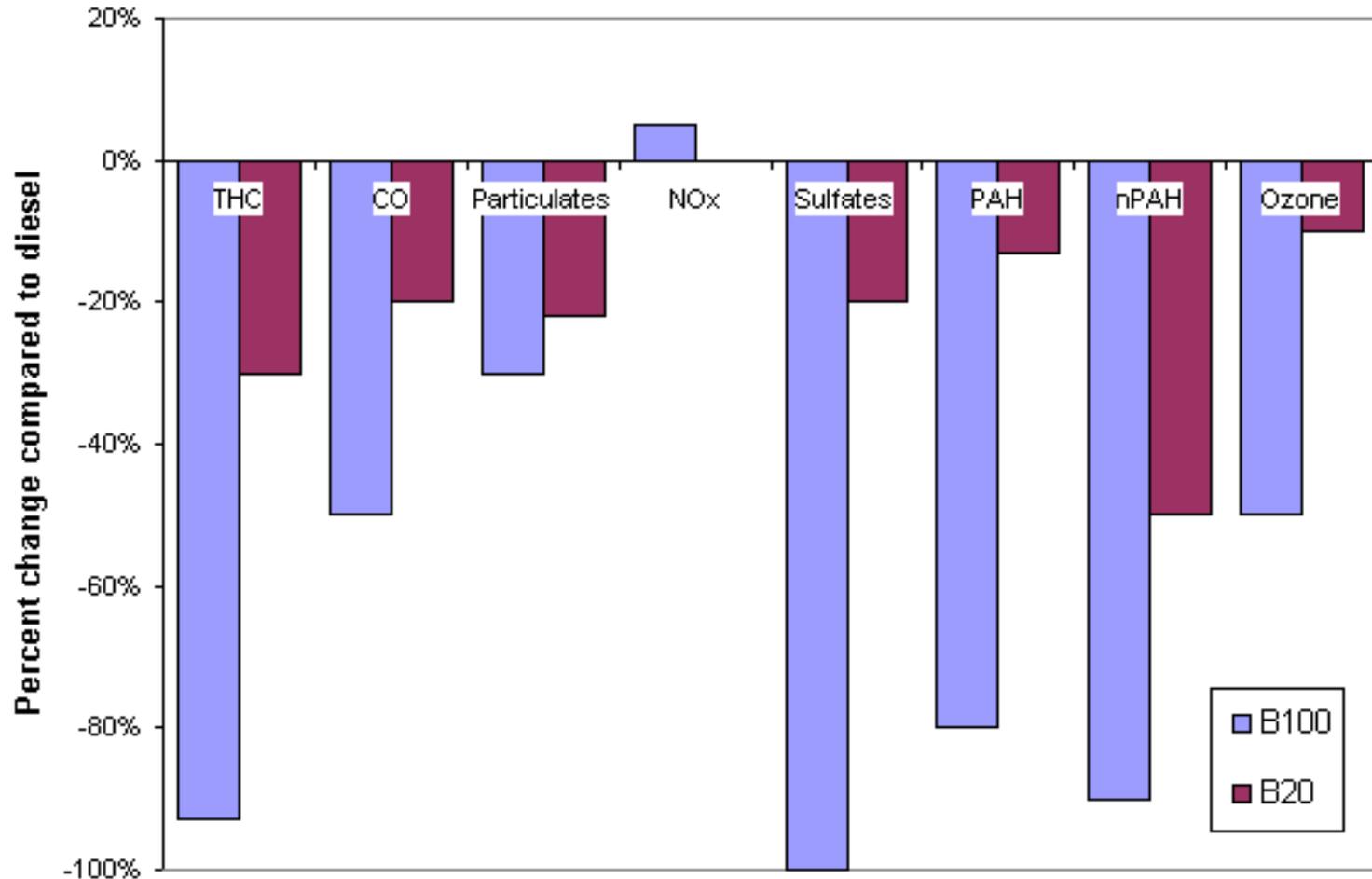
Who Utilizes Biodiesel?

- Fleets affected by the EPA Act are the largest consumers of biodiesel
- Farmers and other agricultural business are the second largest users of biodiesel
- Department of Defense (U.S. Military) promises to be a major player in the alternative fuels market as 75% of new vehicles must be alternative fuel vehicles
- Biodiesel is sold in all 50 states but only produced in about two dozen locations

Additional Markets for Biodiesel

- School Buses
- Trains
- Cruise ships, freighters, tankers, and tugs
- Diesel-fired power plant and generators
- Residential space and water heating
- Hospital boilers and steam plants
- Industrial heating and refrigeration units

Biodiesel Emissions



<http://www.gobiodiesel.org/media/biodiesel-vs-diesel-emissions.gif>

ENDER's Sales Strategy

- Competitive pricing due to lower cost feedstock and lower production costs
- Foster the growth and value of the biodiesel market by educating the public on the benefits of the product

Government Mandates

- The State of Michigan is currently considering a bill that will require all diesel fuel in Michigan to be a minimum of a 2% biodiesel blend
- In order to achieve a B2 blends in this quantity, 20 million gallons of B100 would be required to satisfy demand just in the state of Michigan.

ENDER Biodiesel

- Jeep Liberty delivered with 5% bd in tanks
- VW focusing investment on diesel's not hybrids or fuel cells
- "The End of Cheap Oil" – National Geographic June 2004
- "Tennessee Biodiesel Plant Nears Completion" "American Ag Fuels LLC Under Construction in Ohio" Biodiesel Magazine Dec/Jan 2005
- "Forget Hydrogen and Hybrids, the ANSWER is Diesel" The Detroit News on opening day Auto Show 2004
- University of Michigan
- Romulus School District
- Montreal Mass Transit
- "National Security to Lead Renewable Energy Deployment" renewableenergyaccess.com December 2004



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