

## The Transparent Solution: Biodiesel's Growing Role



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## Biodiesel is a simple and effective alternative to Petroleum Diesel

- Runs in Diesel Engines
- Reduces Emissions
- Reduces Oil Dependence
- Meets Federal Standards
- Stimulates Our Economy



## How Do You Start a Biodiesel Program?

- Specify D6751-02
- Specify cloudpoint
- Use 20% blend, B20
- Does not Void Warranty
- Pay .20- .25 per gallon
- Pour into tank
- Schedule early filter change
- Resume business as usual



RUDOLPH DIESEL



## What does World Energy know about biodiesel distribution?

- Supplier for most American fleets
- Largest biodiesel capacity in the U.S.
- Strategically allied with Gulf Oil
- Nation-wide distribution network
- Longest cold-weather experience



### How do we Deliver?

#### SUPPLY BULK BIODIESEL TO YOUR AREA.

- World Energy has multiple production facilities.
- All product is guaranteed to ASTM standard.
- Biodiesel is transported in insulated, steam-coiled jumbo railcars to Rail Distribution Nodes.
- Diesel transport vehicles bring World Energy biodiesel to local Distribution Nodes.



### How do we Deliver?

#### Partner with Local Distributors.

- World Energy partners with local distributors to make biodiesel available in your community.
- Local distributors follow World Energy handling and distribution guidelines to ensure top quality product.
- You purchase and receive only fully blended product as you need it.
- Blend rates are insured through dual meter slips.



### How do we Deliver?

According to Your Custom Requirements.

- World Energy is licensed to sell petroleum diesel in your state and can sell to you directly.
- World Energy has been awarded most DESC and other long-term contracts.
- World Energy tracks your EPACT credits.
- World Energy can supply via your existing distributor to fulfill your needs.



### How does Biodiesel Perform? Better than Petroleum Diesel Fuel

- High Cetane                      -High lubricity
- Comparable BTU content



### How Does Biodiesel Satisfy EPACT Requirements

- EPAct (Energy Policy Act):
- 2250 gallons of B20 = 1 vehicle (\$450 at .20)
- Limited to 50 percent of compliance  
Executive Order 13149
- 20 percent petroleum reduction



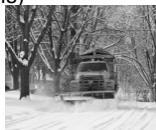
### How Does Biodiesel Compare with EPA 2006 Diesel Standards? FULLY

- Soy Envirodiesel at 0-1 ppm sulfur.  
Zero aromatics  
Specify 15 ppm standard



### ...Without Sacrificing Lubricity

Lubricant	<u>HFRR</u> (microns)
None	536
<b>1% Biodiesel</b>	<b>321</b>
Additive 1	338
Additive 2	398
Additive 3	343
Additive 4	348
Additive 5	515



### Who is Already Using Biodiesel to Solve These Problems?

- Aspen
- Yellowstone NP
- Northstar at Tahoe
- Malmstrom AFB
- Glacier NP
- Breckenridge
- The US Post Office
- US Dept. of Agriculture
- North Carolina DOT



## Who is Already Using Biodiesel to Solve These Problems?

Commonwealth Edison  
The State of Delaware  
Alabama Power  
Georgia Power  
Reliant Energy  
Pacific Gas & Electric  
New Jersey Transit  
South West Ohio Transit



## Who is Already Using Biodiesel to Solve These Problems?

Transit of Northern Kentucky  
Austin Energy  
The State of Alabama  
Virginia DOT  
Peterson Air Force Base  
Camp Pendleton USMC  
Manhattan Post Office  
Pacific Waste



## Who is Already Using Biodiesel?

State of Connecticut  
San Diego Gas & Electric  
Florida Power & Light  
Madison Gas & Electric  
Aspen  
The US Navy  
Duke Power  
San Luis Obispo Police



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