

Clean  
Cities

BioDiesel  
USA 

PROPOSAL

FOR ALL THE RIGHT REASONS



ENVIRONMENT ENERGY SECURITY ECONOMY

## Who wants to breathe Sulfur anyway: it only causes lung damage and promotes cancer.

For every gallon of Fossil Diesel replaced with B20 BioDiesel  
The Fuel has 30% less hydrocarbons and 20% less carbon monoxide  
BioDiesel B100 produces 50% less ozone-forming hydrocarbons  
and hardly any sulfur dioxide.

The Department of Energy states that the combined production  
and use of BioDiesel gives off 80% fewer Co2 emissions.

BioDiesel is less toxic than table salt and  
biodegrades as fast as sugar.

Prepared for  
George Nichols  
Coordinator  
Clean Air Cities  
DC Washington



# Proposal

## Education, training, support and promotion

BioDieselUSA will;

- Provide education and information for fleet managers, maintenance personnel and others who will be implementing use, storage and transport of renewable biofuels and biomass. For diesel engines and BioHeat.

Necessary education and support to include;

- Understanding ASTM Specifications
- BioDiesel Distribution, care, blends and properties.
- Establishing and maintaining fuel quality throughout the supply chain
- Cold weather use and additives
- Use, properties and testing procedures
- Coordinate resources, knowledge and direct information
- Work with necessary personnel to plan implementation

Provide and package educational and promotional material

Including;

- BioDiesel and it's role in the implementation of Clean Cities missions
- Understanding the benefits of Biodiesel in your engines and on our planet
- Green issues, federal policy and political direction.
- Climate control
- Recent success examples around the USA
- Petroleum reduction

## BioDiesel Supply

BioDieselUSA will;

- Supply and deliver various blends of Biodiesel (B5, B10, B20 and higher)
- to fueling sites as required for the city of Washington DC and surrounding counties.
- Ensure reliable supply and quality Biodiesel product
- Coordinate cooperation and partnerships with existing jobbers.

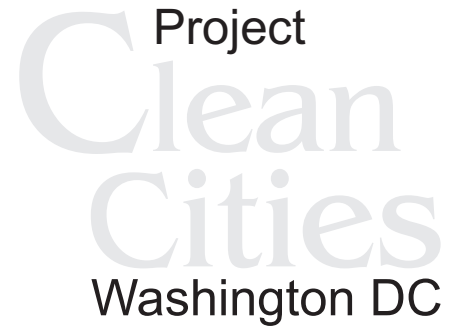
## Project Funding Sources

- Clean Cities Grants
- Renewable energies grants
- Stimulus funds

BioDiesel  
USA



# Project funding



## Scope of Project

**Prepare a scope of Project**

**Conduct necessary meetings**

**Present proposed scope of education and support material**

**\$25,000-\$75,000**

Items below to be determined through the scope of project

## Education, information and marketing materials

**\$175,000-\$500,000**

## Ongoing support

**Hourly rate \$75-\$200**

## Project Funding Sources

Clean Cities Grants

Renewable energies grants

Stimulus funds

DOE Grants

# BioFueling costs

BioDieselUSA shall provide and deliver  
B5ULSD low sulphur diesel fuel Cost per unit and  
other Biodiesel blends based on the posted  
OPIS daily average rack price + \$1 to \$1.50

*Stimulus monies can be used to offset price  
differential between Biodiesel and regular  
low sulphur diesel.*



## ENVIRONMENTAL NEEDS

## HUMAN DRIVEN

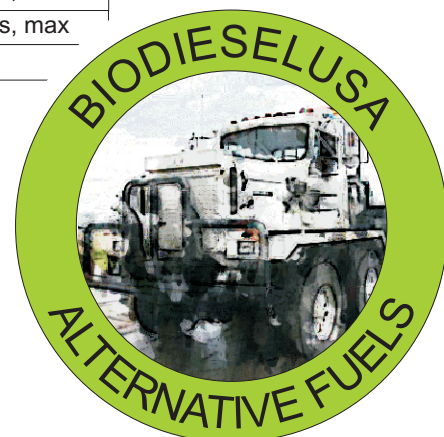


# Product Exceeds ASTM Standards

Test	ASTM Limit	REG-9000 Limit		
Free Glycerine	0.020 %mass, max	0.014 %mass, max	Exceeds ASTM Limits	
Total Glycerine	0.24 %mass, max	0.16 %mass, max		
Water and Sediment	0.05 %vol, max	0.02 %vol, max		
Acid number	0.5 mg KOH/g, max	0.4 mg KOH/g, max		
Visual Inspection	2, max	1, max		
Relative Density @ 15 c	Report	0.85-0.90		
Kinematic Viscosity @ 40 c	1.9 - 6.0 mm <sup>2</sup> /sec	3.8 - 5.0 m <sup>2</sup> m /sec		
Sulfur: S 15 Grade	15 ppm, max	10 ppm, max		
S 500 Grade	500 ppm, max	10 ppm, max		
Copper Strip Corrosion	No. 3, max	No. 1, max		
Na and K, combined	5.0 ppm, max	1.5 ppm, max		
Ca and Mg, combined	5.0 ppm, max	1.0 ppm, max		
Monoglycerides	Not required	0.50 %mass, max		Testing Beyond Requirements
Diglycerides	Not required	0.20 %mass, max		
Triglycerides	Not required	0.15 %mass, max		
Moisture (Karl-Fischer)	Not required	400 ppm, max		
Cold Soak Filtration Time	Not required	200 sec		
Oxidation Stability*	3.0 hrs, min	3.0 hrs, min		
Cetane	47, min	47, min		
Alcohol Control (A): Flashpoint	130°C, min	130°C, min		
Alcohol Control (B): methanol	0.2 %vol, max	0.2 %vol, max		
Phosphorous	0.001 %mass, max	0.001 %mass, max		
Carbon residue, 100% sample	0.050 %mass, max	0.050 %mass, max		
Sulfated Ash	0.020 %mass, max	0.020 %mass, max		
Distillation at 90% Recovered	360°C, max	360°C, max		

**BioDiesel**  
**USA**

BioDieselUSA.info

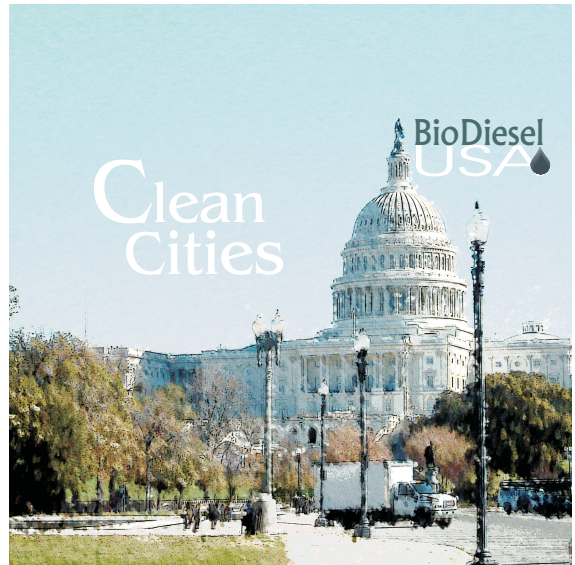


# Reduce

Conventional fuel use  
Greenhouse emissions  
Foreign oil dependance

# Create

US green jobs and independence  
Cleaner future for our children  
Links with stakeholders in transport



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# Bringing Alternative Energy to Washington DC

## REG 9000 BioDiesel Products

### REG-9000-1

Cloud Point            0-2°C  
                                  (32-36°F)  
Oxidation Stability 3-6 hr  
Cetane                    47-50

Exceeding ASTM specifications  
Millions of gallons available  
Transport via rail and truck  
Available with the minimal lead time  
and best possible prices

### REG-9000-5

Cloud Point            4-6°C  
                                  (39-43°F)  
Oxidation Stability 5-8 hr  
Cetane                    50-53

### REG-9000-10

Cloud Point            8-12°C  
                                  (46-54°F)  
Oxidation Stability 7-10hr  
Cetane                    53-59

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