Current Infrastructure, Present Savings

On-Site Fueling: Is it Right For Your Fleet?

Green Your Fleet, Granite State Clean Cities Coalition

Joel Bobbett, Simply Green Biofuels

Simply Green

Heating Oil • Diesel • Service

...is your fuel green?™

Outline

- Introduction
- About On-Site Fueling
- Identifying Opportunity
- Benefits
  - Cost Savings: Labor and Fuel
  - Risk-hedging
- Implementation
- Q&A

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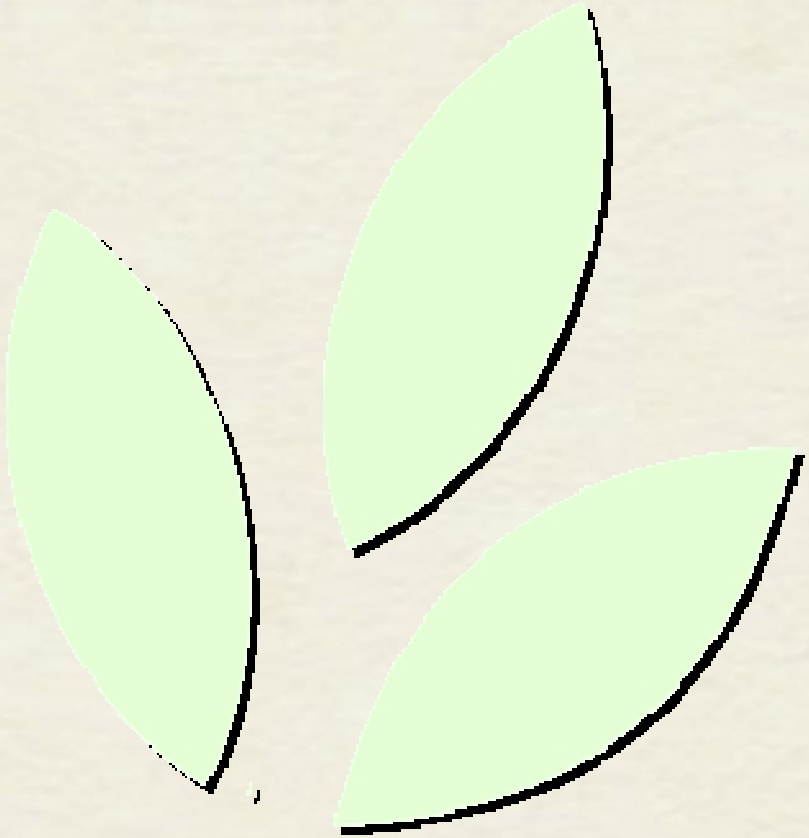
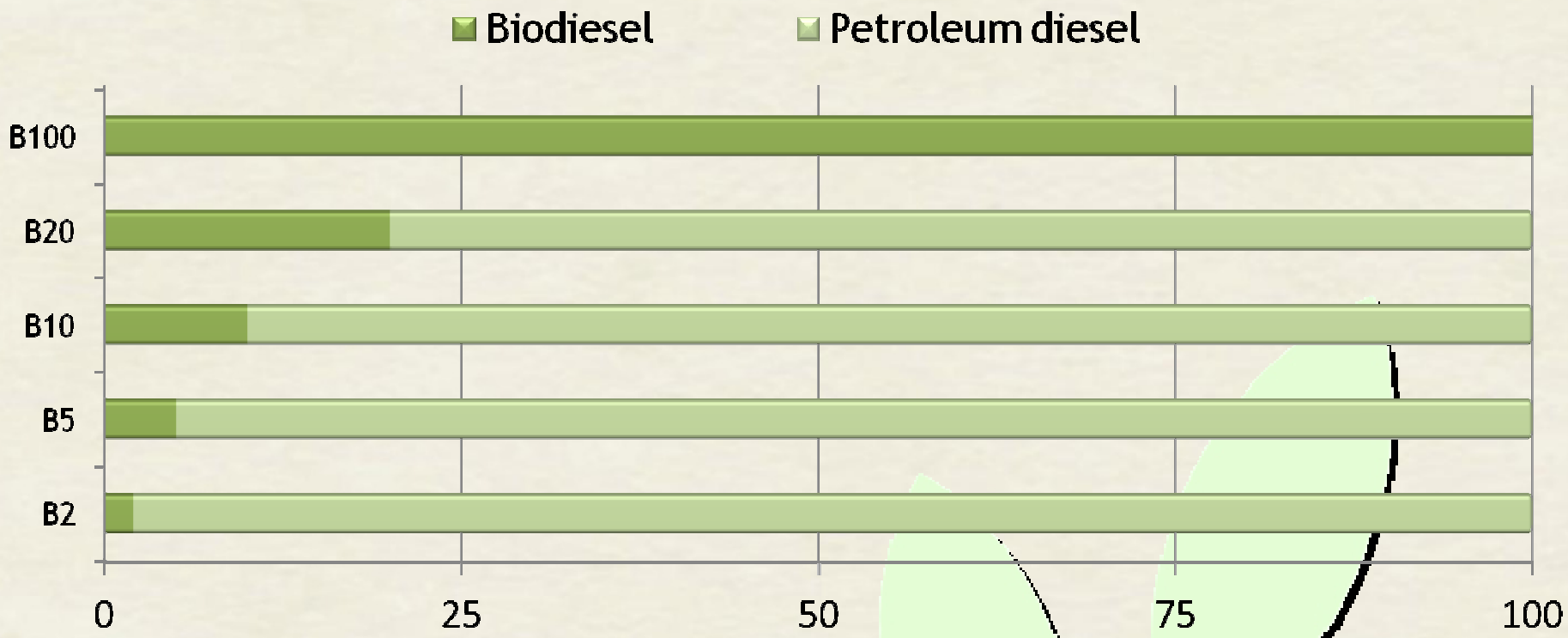
About Biodiesel

- Blending: combining petroleum distillate with biodiesel fuel to arrive at a usable fuel
  - Ratio
  - Injection
  - Splash Blending



Biodiesel Blends



B100 = 100% BBD

B20 = 20% BBD + 80% ULSD

B10 = 10% BBD + 90% ULSD

B5 = 5% BBD + 95% ULSD

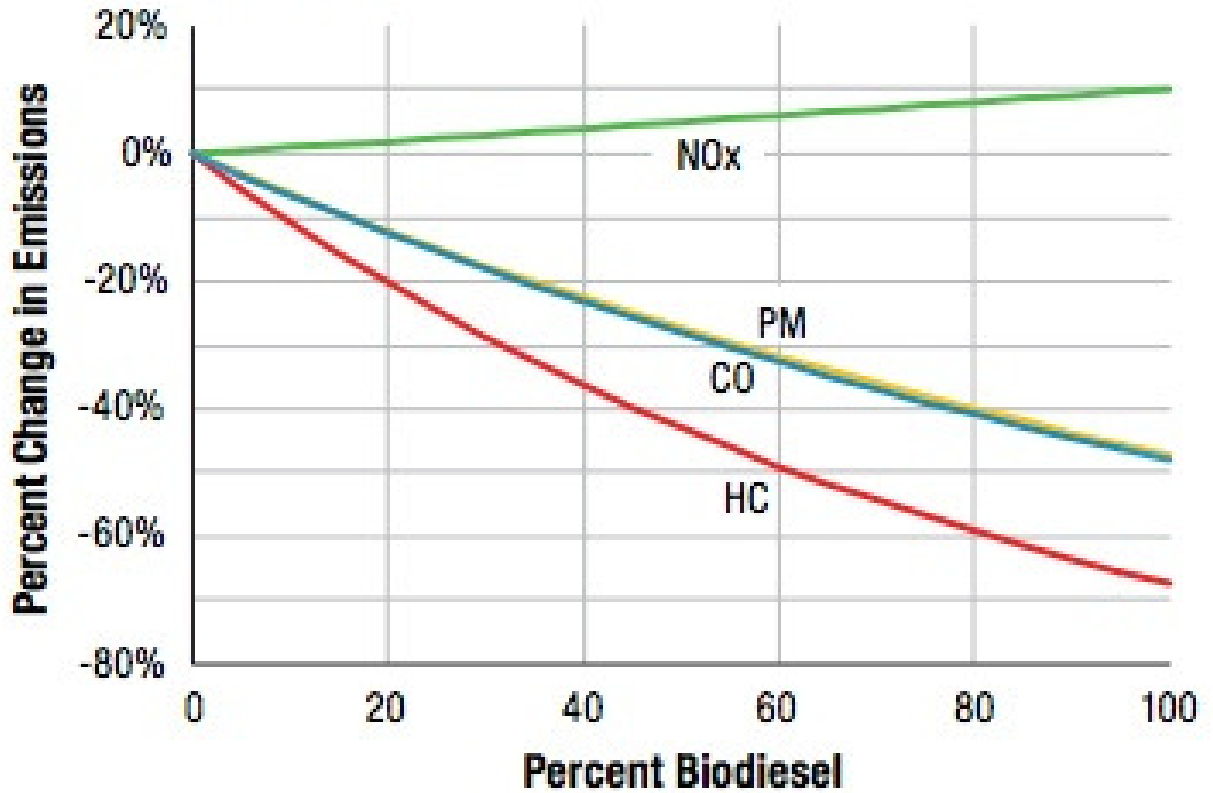
B2 = 2% BBD + 98% ULSD

Fuel Characteristics

- Higher Cetane Values
- Added Lubricity
- Solvency
- Cleaner Effective Burn (at B20 level)
  - Reduce Particulate Matter emissions by 10%
  - Reduces CO by 11%
  - Reduces Unburned HydroCarbons by 21%

Emissions Reduction

Figure 1. Average Emission Impacts of Biodiesel for Heavy-Duty Highway Engines



Source: EPA, Draft Report EPA 420-P-02-001, Ocotober 2002

Biodiesel Usage

- Performance
  - Added lubricity leads to fuel-efficiency gains
  - Higher cetane numbers = better ignition qualities
- OEM Warranties
  - ASTM Change Summary – D6751, D7467, D975
  - All engine manufacturers warranty B5
  - B20 Warranties Increasing

OEM Warranties

B100 OEM Warranty	B20 OEM Warranty	B5 OEM Warranty
Case IH	Arctic Cat	Audi
Fairbanks Morse	Caterpillar	BMW
New Holland	Chrysler	Daimler Trucks
	Cummins	Kubota
	Ferris	Mazda
	Ford (2011+ models)	Mercedes Benz
	General Motors	Mitsubishi
	HDT USA Motorcycles	PACCAR
	Hino Trucks (2011+)	UD Trucks
	International / Navistar	Volkswagen
	Isuzu Commercial Trucks	
	John Deere	
	Mack	
	Perkins	
	Tomcar	
	Toro	
	Volvo Trucks	
	Yanmar	

Usage

- Treatment
  - Prevention over Prescription
  - Biocide/Bactericide
  - Cold Weather Treatment
  - Year-Round Hydrophobic Treatment
    - Condensation and Water Prevention
    - Create an inhospitable environment for bacteria

Misconceptions & Myths

- Clogged Filters
- Cold Weather Usage
- Fuel Quality Guarantees
- Availability

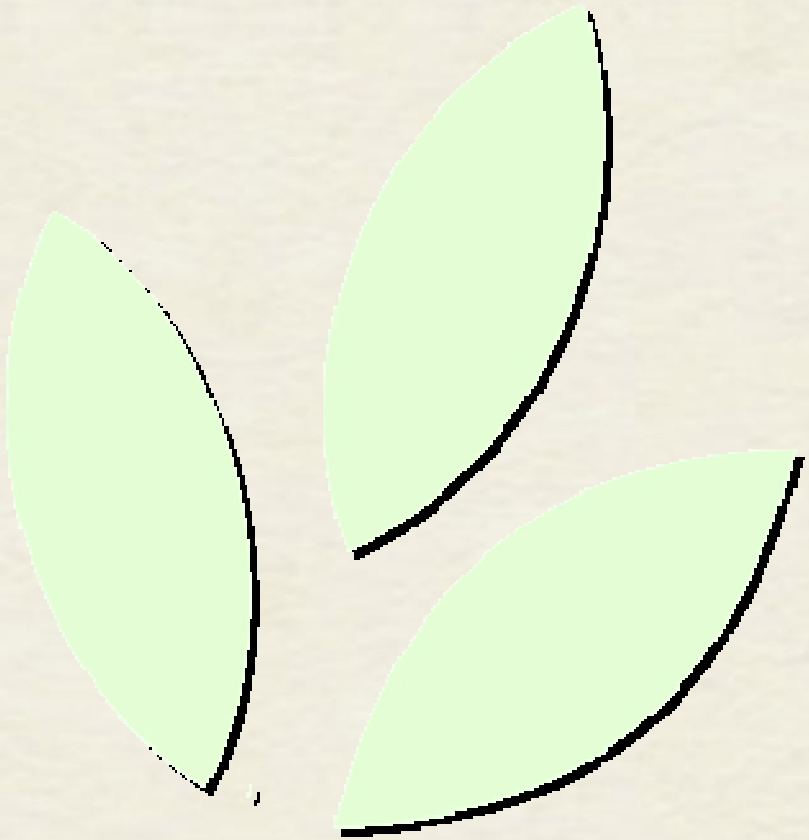
Getting the Most out of Biodiesel

- Additive Program
- Spec' Biodiesel
- Close Relationship with Trusted Supplier
  - Firsthand Experience
- Consistency

Resources

- www.biodiesel.org
- www.biodieselmagazine.com
- www.spragueenergy.com/pages/content.aspx?p=diesel_specs
- http://www.granitestatecleancities.org/news/russellarticle.pdf
- www.biotrucker.com

Questions?



Thank You

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