



# Will Nature **POWER**

# your **DIESEL FLEET?**

*Submitted by Canadian Canola Growers' Association*

**Every year, Manitobans** consume over 850 million litres of petroleum diesel fuel. By incorporating cleaner burning, renewable biodiesel into vehicle operations, municipalities can contribute to the well-being of the environment while responding to the concerns from 84% of Manitobans who worry about the impact that climate change will have on their communities.

## **BIODIESEL 101**

Biodiesel is a safe, non-toxic and biodegradable fuel made from renewable sources such as canola oil, animal fats or used cooking oils. As a feedstock, canola is best suited for biodiesel because of its improved stability and strong cold weather properties. Biodiesel is most often blended with conventional petroleum diesel to produce blends such as B2 (a blend of 2% biodiesel and 98% petroleum diesel), B5 and B20. These blends can be burned in variety of fleet vehicles including heavy duty equipment with no or minor modifications.

## **CHOOSE BIODIESEL FOR A BETTER FUTURE**

Using biodiesel in your municipal fleet is one way to reduce your community's footprint on the environment. "By incorporating biodiesel into your fuelling program, municipalities also create local markets for our canola and support sustainable long-term job creation in the domestic processing sector," says **Brian Chorney**, a farmer from East Selkirk and President of the

Canadian Canola Growers Association.

Biodiesel has proven in road tests that its benefits are worth considering.

- **Environmental** – Compared to petroleum diesel, biodiesel reduces greenhouse gas emissions and harmful tailpipe emissions, improving air quality.
- **Energy Balance** – Biodiesel has the highest "energy balance" of any transportation fuel. For every unit of energy needed to produce a gallon of biodiesel, 3.24 units of energy are gained.
- **Economic** – By creating a local market for canola, biodiesel adds stability to farm income and the rural economy. It's also good news for fleet managers as biodiesel increases fuel lubricity, reducing engine wear and maintenance costs.

## **PUTTING BIODIESEL TO THE TEST**

The City of Winnipeg began testing biodiesel in 20 different maintenance vehicles in 2007. Both trucks and a variety of equipment are participating in the controlled test that continues until this March. Since the test began, the biodiesel blend has been increased from B5 to B10, without any noticeable change in performance.

Biodiesel is one of several ways the City is looking to green its vehicle fleet. "We recognize the potential biodiesel offers to reduce emissions and provide a renewable fuel source. To date, the City has not experienced any operational problems using the fuel and depending on the

results of the trial, we will consider deploying biodiesel fleet wide," says **Yvan Lupien**, the City of Winnipeg's Chief Operating Officer of the Fleet Management Agency.

Border Chemical Company Limited of Winnipeg put its long-haul trucking fleet to the test, logging over 74,000 kilometres using B5. The company found that even in frigid Canadian winters the truck using biodiesel compared favourably to a similar vehicle running on standard fuel with no loss in power, similar fuel consumption levels and no changes in filters or engine wear. An added benefit was the absence of diesel fuel smell in the B5 truck.

## **BIOFLEET – HELPING YOU GET STARTED**


BioFleet, a western Canadian market development program, is helping municipalities, school divisions and trucking fleets adopt biodiesel blends. Any Manitoba fleet that uses biodiesel is eligible to join BioFleet and participants are given free access to a variety of resources including:

- A common marketing platform with a recognizable brand name and logo – "BioFleet Biodiesel. Powered By Nature".
- Biodiesel resources – fact sheets, checklists, emission reduction calculators, workshops, case studies, educational videos, biodiesel suppliers and a whole lot more.
- Support network – access to other Canadian municipalities, school divisions and fleets that have made biodiesel a regular part of their operations.
- A financial incentive program for biodiesel use.



## BIOFLEET RESOURCES AND WORKSHOPS

In Manitoba, the BioFleet program is managed by the Canadian Canola Growers Association. To learn more about the BioFleet program, visit [www.biofleet.net](http://www.biofleet.net).

To participate in the BioFleet Workshop for Municipalities to be held in February 2009 contact **Brendan Boyd**, Energy Development Initiative, at [brendan.boyd@gov.mb.ca](mailto:brendan.boyd@gov.mb.ca) or call 204.945.4535. 

### 1 INTO 10

One bushel of canola will produce 10 litres of biodiesel. With average yields of 40-45 bushels/acre produced on an 80 acre field, one field of canola could produce 32,000-36,000 litres of biodiesel.

### YOUR CONTRIBUTION TO EMISSION REDUCTION

If 20 million litres of biodiesel were consumed in Manitoba (roughly 2% of Manitoba's total diesel consumption) it would result in a net greenhouse gas decrease of approximately 56,000 tonnes annually.

Source: GHGenius model adopted by Natural Resources Canada

To find out how much your municipality can contribute to reducing emissions, visit the *Carbon Reduction Calculator* at [www.biofleet.net](http://www.biofleet.net).



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