



## Canola Council's Diesel Digest

### This Week in Parliament

*The agricultural sector will benefit from our Government's promotion of biofuels and the new Growing Forward agricultural framework.*

#### Speech from the throne - October 16, 2007

*Mr. Speaker, the Minister of the Environment has been clear. The targets he has set – which we can call simply 20 by 2020, 60 to 70 by 2050 – are among the most aggressive in the world going forward. The government will move forward with its plan for the reduction of greenhouse gas emissions and air pollutants.*

#### Rt. Hon. Prime Minister Harper - Reply to Speech from the Throne October 17, 2007

*Mr. Speaker, we have been abundantly clear that we have a moral responsibility to act on the global crisis that is global warming. We do not want to study this issue for another year. We will not shirk our responsibilities. We are going to act.*

#### Hon. John Baird - Environment Minister - Question Period, October 17, 2007

*Mr. Speaker, we are taking real action to reduce greenhouse gas emissions. This government is pushing the provinces and the private sector to achieve absolute reduction of greenhouse gases.*

#### Hon. John Baird - Environment Minister - Question Period, October 22, 2007

[More Details: \(HANSARD\)](#)

Vol. 2, Issue 06 - Oct. 24, 2007



*Biodiesel: The future's fuel*

### Diesel Digest

#### The Canola Council's News-wire on World Developments in Biodiesel

*"Using full life-cycle data, (biodiesel) will reduce greenhouse gases by at least 85 per cent for every litre of diesel that it displaces."*

**Doug Hooper  
President**

**Canadian Bioenergy Corp**

### Construction starts on Canada's first large canola biodiesel plant



Canadian Bioenergy Corp. broke ground October 15, for construction of its \$90-million biodiesel refinery near Fort Saskatchewan. President Doug Hooper expects the plant to open in mid-2009 and to process 500,000 tonnes of canola seed per year.

The plant expects to open in mid-2009 and to process 500,000 tonnes of canola seed per year. In an average year, that would equal the production from 650,000 acres, or five per cent of Canada's canola harvest. After adding methanol and catalysts, the plant will produce about 200,000 tonnes of refined oil annually.

A day later, on October 16, Canadian Bioenergy Corporation announced an agreement with Renewable Energy Group, Inc. (REG) to partner in the construction of a biodiesel production facility near Edmonton, Alberta. Together, the companies intend to forge a strategic marketing alliance to better serve the North American marketplace by supplying premium biodiesel and biodiesel blends and industrial methyl esters across the continent.

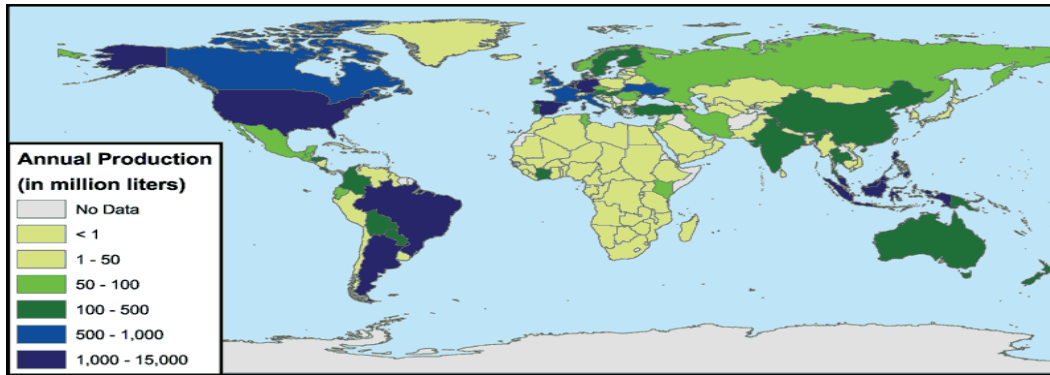
The Alberta government also approved more than \$4 million in grant for Canadian Bioenergy Corporation's biodiesel plant in Fort Saskatchewan. As one of the largest biodiesel plants to be con-

[More Details: \(CANADIAN BIOENERGY\) \(ALBERTA RELEASE\)](#)

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## Global potential for biodiesel is enormous



One of the renewable energy sources that has attracted a lot of attention is biodiesel, obtained by converting the fats and oils in agricultural products into a burnable diesel fuel. At the moment, a lot of biodiesel production occurs in small-scale pilot programs, but a report completed by the University of Wisconsin's Center for Sustainability and the Global Environment (SAGE) indicates its global potential is enormous: over 400 billion liters annually, well more than double the amount of diesel the US burns every year.

The report lays out a compelling rationale for a focus on biodiesel.

[More Details: \(FULL REPORT\)](#)

### European biodiesel legislation creates havoc



German biodiesel producer Petrotec said on Tuesday it was temporarily stopping biodiesel production partly because Germany's biofuel taxes have hit sales.

Petrotec CEO Roger Boeing said in the statement: "With its deliberate lack of action the government in Berlin is driving the biodiesel sector to the abyss." "Curiously enough, the

government considers desirable the demise of a sector that it has for years encouraged to invest and supported with taxpayers' money."

"This is most certainly not a German contribution to reducing carbon emissions and environmental protection." Petrotec said it would suspend biodiesel output until the end of 2007 but all existing delivery contracts would be honored. It would recommence biodiesel production as soon as mar-

[More Details: \(REUTERS\)](#)

### Answering Questions about Canola Biodiesel

#### Will using biodiesel really help to lower Green House Gas Emissions?

- Yes and quite substantially, relative to petroleum diesel. A litre of diesel creates 4 kgs of CO<sub>2</sub> Equivalent while biodiesel ranges between -.5 and 1 kgs/litre. Although the methods to accurately measure GHG emissions are still continuing to develop, the most reliable estimate is based upon the GHGenius model. An analysis developed by Dr. Hadi Dowlatabadi at the University of British Columbia depicts a GHG emissions from a range of canola production techniques and shows that there is an 85% to 110% reduction in Green House Gas emissions for biodiesel relative to petroleum diesel.

#### Aren't tail pipe emissions the same for biodiesel as petroleum diesel?

- No, burning biodiesel rather than diesel produces substantially lower emissions. Pure biodiesel contains about 10% oxygen by weight and it is this oxygen which leads to a reduction in emissions of hydrocarbons (HC), toxic compounds, carbon monoxide (CO) and particulate matter (PM) when biodiesel blends are burned in diesel engines. Biodiesel also reduces emissions of reactive organic gases (ROG) which are considered to be noxious and carcinogenic. Each

[More Details: \(CANOLA COUNCIL OF CANADA\)](#)

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## World's first flight powered entirely on biodiesel



Aviation history was made earlier this month in the high desert at the Reno-Stead Airport when an L-29 military aircraft succeeded in completing the world's first jet flight powered solely by 100% biodiesel fuel. The Czechoslovakian-made aircraft is rated to fly on a variety of fuels including heating oil, making it the preferred platform for testing biodiesel in jet engines.

Out of concern for our global environment, Green Flight International was conceived by Douglas Rodante in April 2006 to serve as a platform for future development in the use of environmentally-friendly fuels in aviation and elsewhere.

In the near future, Green Flight International expects to announce plans for another record-breaking aviation event.

**[More Details:](#)** [\(RELEASE\)](#) [\(BIODIESEL SOLUTIONS\)](#)

## UPS expands green fleet



This biodiesel initiative in Louisville is being launched with the support of a \$515,000 federal grant that is helping offset some of the cost of building a fuel infrastructure at the airport. The infrastructure will provide a 5 percent biodiesel blend of fuel to run 366 ground support vehicles starting early next year.

Biodiesel is a clean-burning diesel replacement fuel that can be used in compression-ignition engines. It is manufactured from U.S.-produced oils such as soybean oil, recycled cooking oils or animal fats. The use of biodiesel reduces particulate matter, carbon emissions and volatile organic compounds.

**[More Details:](#)** [\(UPS RELEASE\)](#)

## ADM opens new biodiesel plant in Velva, ND



Archer Daniels Midland Company officially opened its first wholly owned biodiesel production facility in the United States with a ceremonial ribbon cutting on Oct. 10. The 85 million-gallon facility is located adjacent to ADM's existing canola seed crushing facility, and uses canola oil as its primary feedstock.

"The opening of this biodiesel facility is the next step on a journey that will strengthen rural economies, reduce overall pollution and improve the energy security of our nation and our world."

ADM's facility may require more than 100 percent of North Dakota's canola supply. The state is the leading canola grower in the United States, producing more than 95 percent of the nation's crop. "That plant is going to require about 700,000 tons of seed, so some will have to come from somewhere else," said Eric Mack, a Velva canola grower and board member of the Northern Canola Growers Association

**[More Details:](#)** [\(GRAIN NET\)](#)

## Make a run for the border

A new biodiesel plant that will initially create 20 new jobs is being planned for Wheatfield, NY. Nanak Biodiesel Inc., a Toronto-based company, won approval from the Niagara County Industrial Development Agency on Wednesday to purchase 5 acres of land near the IDA's headquarters in Vantage International Pointe.

Nanak Biodiesel operates a 10,000 square foot biodiesel facility in Toronto, but the company looked for a U.S. location because the U.S. government is more supportive, Gosal said. "The industry is better recognized in the U.S. than in Canada," he said. The company explored sites in Texas and California but chose Niagara County because of its proximity to the Canadian border. The Toronto location, open now for two years, will remain in operation. The company hopes to use locally grown vegetable products, specifically soybeans.

**[More Details:](#)** [\(TONAWANDA NEWS\)](#)

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