

# BIO BUS

## Demonstration and assessment of biodiesel with the STM

For a one-year period, from March 2002 to March 2003, 155 STM BIOBUSes will run on biodiesel in downtown Montreal.

The BIOBUS project has three distinctive features:

- Biodiesel projects in other countries were carried out in warmer climates, whereas the BIOBUS project will provide a benchmark for biodiesel use in a cold climate (winter 2002–2003).
- The biodiesel used by the STM comes mainly from agro-industrial waste (non-food-grade vegetable oil, recycled cooking oil and animal fat), projects elsewhere use biodiesel primarily from vegetable oil.
- BIOBUS is the largest scale such project ever undertaken in North America in the field of mass transit.

## What is biodiesel?

Biodiesel is a fuel made from non-food-grade vegetable oil, recycled cooking oil or animal fats. B5 and B20 are blends of 5% and 20% of biodiesel to regular diesel. These blends will be used in the STM BIOBUSes.

### Biodiesel:

- Promotes **sustainable transportation** because it is produced from local, renewable resources.
- Helps significantly in the **reduction of greenhouse gas (GHG) and polluting emissions**.
- Is **easy to use**, since no changes are needed either to the existing infrastructure for fuel distribution and delivery or to the diesel engines of buses.

## Urban transportation and climate change

In Quebec, the transportation sector alone accounts for nearly 40% of total greenhouse gas (GHG) emissions. The different levels of government are firmly resolved to reduce GHG emissions. This resolve is borne out by Canadian and Quebec action plans to fight against climate change, in accordance with the Kyoto Protocol.

A city bus can carry as many passengers as 50 cars... but pollutes up to 18 times less! Mass transit will therefore play a growing role in the fight against climate change. By running on biodiesel, buses can further help reduce GHG and polluting emissions.

Results from the BIOBUS project will serve to document and demonstrate to what extent biodiesel is a viable and profitable alternative for fuelling mass transit buses.





*The BIOBUS project will assess the use of biodiesel under actual operating conditions, especially in cold weather, and demonstrate the feasibility of supplying a mass transit company, the STM, with this renewable energy source. The BIOBUS project will analyze the economic and environmental impact of using this fuel made from vegetable oil or animal fats that are recycled agro-industry waste.*

#### **Project promoters**

- Canadian Renewable Fuels Association (CRFA)
- Fédération des producteurs de cultures commerciales du Québec (FPCCQ)
- Société de transport de Montréal (STM)
- Rothsay/Laurengo  
(member of the Maple Leaf Foods Group)
- Government of Canada
- Government of Quebec

*To learn more about the BIOBUS project, visit the Web site:*

**[www.stm.info](http://www.stm.info)**

*To learn more about the project promoters or renewable energy, visit the Web sites below:*

Canadian Renewable Fuels Association:

**[www.greenfuels.org](http://www.greenfuels.org)**

Fédération des producteurs de cultures commerciales du Québec:

**[www.fpccq.qc.ca](http://www.fpccq.qc.ca)**

Rothsay/Laurengo:

**[www3.sympatico.ca/rothsay/montreal.html](http://www3.sympatico.ca/rothsay/montreal.html)**

Natural Resources Canada:

**[www.canren.gc.ca](http://www.canren.gc.ca)**

Environment Canada:

**[www.ec.gc.ca](http://www.ec.gc.ca)**

Environnement Québec:

**[www.menv.gouv.qc.ca](http://www.menv.gouv.qc.ca)**

Transports Québec:

**[www.mtq.gouv.qc.ca](http://www.mtq.gouv.qc.ca)**

*Pour une copie en français, SVP consultez le site [www.stm.info](http://www.stm.info) ou téléphonez au numéro : 514-280-5100*



**Ride a BIOBUS  
It's simple!  
It's clean!**

**It also helps in the fight  
against climate change**

Canada Québec 

