



## 2010 REASONS TO DO BUSINESS IN CANADA



### BIOENERGY FUELS CLEAN DEVELOPMENT

The Vancouver 2010 Olympic and Paralympic Winter Games showcased the very best in Canadian innovation and expertise in the bioenergy field. In line with making the 2010 Winter Games the cleanest Games to date, a number of bioenergy technologies were used in order to support the needs and activities of athletes and spectators alike.

One important means to achieve this Vancouver 2010 vision was through the use of hybrid and alternative fuels which demonstrated the use of clean transportation technologies. In the bioenergy sector specifically, the use of biodiesel as a fuel for buses and vehicles was used to help showcase Canada's expertise in bioenergy technologies.

Canadian expertise is not in any way only limited to the biodiesel market, however. Canadian firms have also developed remarkable abilities in a number of other areas throughout the bioenergy sector, and are able to provide a wide range of unique products and services that go well beyond biodiesel applications.

#### World-Renowned Expertise

Canada has more biomass resource per capita than any other nation in the world. These resources range from traditional corn and wheat crops to other biomass varieties such as trees and industrial and municipal residues that can be used in the production of complex bioenergy products.



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Canada's rich diversity of biomass feedstock has allowed it to develop unique expertise in a number of bioenergy products and services. In particular, Canadian firms are world-renowned for their expertise in the following areas:



## Services

Canadian firms are highly regarded for their expertise in the provision of a number of services, including:

- the design, construction and operation of large ethanol production plants
- expertise in landfill gas electricity generation
- bioenergy research and development
- expertise in the production of advanced biofuels

## Technologies

Canada has also developed distinct capabilities in a number of innovative technologies. These include:

- turnkey anaerobic digesters and power generation systems for livestock farms
- conversion technologies for wastewater sludge into heat and electricity
- wood burning appliances and automated commercial systems
- scalable pyrolysis technologies for the conversion of wood & other biomass residues
- moving step grate biomass combustion systems

Canadian firms have similarly developed expertise in the production of biodiesel and bioethanol products. In particular, Canadian firms have developed unique strengths in the production of advanced biofuel products such as cellulosic ethanol and are able to undertake biofuel production using a wide variety of feedstock. Canadian companies are also active in the research, development and production of a number of other bioenergy products, ranging from the production of biogas, to the development of algae as feedstock for biofuels and the conversion of waste-to-energy.

## Sustainable Forest Management

Corporate Social Responsibility (CSR) remains a key priority for Canadian firms across all

industries. Worldwide, Canadian firms continue to undertake a number of CSR initiatives and are highly regarded for their socially responsible business practices. These initiatives seek to create a more sustainable and equitable environment by undertaking a number of initiatives that target social and economic development and better balance the needs of businesses with those of local communities and the environment.



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In the bioenergy sector specifically, CSR initiatives are undertaken through the use of sustainable forest management practices. Canada is home to over 10% of the world's forested areas and a significant percentage of these forest resources are used for the production of bioenergy products. In order to better balance the needs of the bioenergy sector with the environment, Canada has developed unique capabilities in the application of sustainable forest management. Canada is a world leader in third-party sustainable forest management certification, with more certified lands than any other country in the world. Certification requires independent, third-party audits to ensure that harvested areas, which can be used in the production of advanced bioenergy products, are reforested, and helps to ensure that all local laws are respected in order to prevent any unauthorized logging. Through certification, Canadian firms help to ensure the conservation of

biological diversity, soil and water resources, and help to create a friendlier environment for local residents and wildlife alike.

## Canada's Future

With one of the most extensive varieties of biomass in the world, Canada remains a global focal point for the development of bioenergy products and services. With growing demand expected for bioenergy products worldwide, Canada is well-positioned to establish itself as a global leader in the bioenergy sector, and will help play a significant role in the development of a cleaner, more sustainable future through the use of bioenergy.

## For More Information...

Foreign Affairs and International Trade Canada:

[www.dfait-maeci.gc.ca](http://www.dfait-maeci.gc.ca)

Industry Canada:

[www.ic.gc.ca](http://www.ic.gc.ca)

National Research Council Canada:

[www.nrc-cnrc.gc.ca](http://www.nrc-cnrc.gc.ca)

Natural Resources Canada – CanmetENERGY:

[canmetenergy-canmetenergie.nrcan-rncan.gc.ca/eng/bioenergy.html](http://canmetenergy-canmetenergie.nrcan-rncan.gc.ca/eng/bioenergy.html)

Sustainable Development Technology Canada:

[www.sdtc.ca](http://www.sdtc.ca)

Canadian Bioenergy Association (CANBIO):

[www.canbio.ca](http://www.canbio.ca)

## The Canadian Trade Commissioner Service (TCS)

The Canadian Trade Commissioner Service is a key resource for anyone interested in doing business internationally. Our global network of trade offices and dedicated officers are there to provide assistance and resources to maximize engagement with companies and government. For more information on Canadian expertise, we encourage you to contact one of Canada's local Trade Commissioners. You can access their knowledge and networks at:

[www.tradecommissioner.gc.ca](http://www.tradecommissioner.gc.ca)