Government of Canada / Gouvernement du Canada

Climate Change
# Solutions

# Energy Supply Technologies

Canada

Government of Canada **Action Plan 2000** on Climate Change

**Canada is home to a dynamic and world-class environment industry. A key component of this industry is a well-established group of resourceful companies that offer climate change solutions – *"services and technologies that enhance competitiveness, increase productivity and reduce environmental impacts, while at the same time prevent, reduce, mitigate or sequester greenhouse gas (GHG) emissions".* In essence, Canadian ingenuity represents additional value to customers.**

- Advance Turbines & Microturbines
- Fluidized Bed Combustion Technologies
- District Heating Systems
- High-efficiency Gas Turbines
- Cogeneration plants
- Combined Heat and Power Systems
- Fugitive Emission Control
- Renewable and Alternative Energy Systems (see associated Brochure)
- Combined Cycle & Integrated Gasification Combined Cycle Plants
- Stationary Fuel Cells
- Integrated Co-firing, Re-firing & Re-burning Systems
- Demand-Side Management

The production and generation of energy has historically been a cornerstone of the Canadian economy. Companies have invested considerable resources into the development and commercialization of cost-effective technologies that more effectively transform a wide variety of fuels (e.g. coal, natural gas, oil, bio-fuels, hydrogen, etc.) into heat and electrical energy. As a result, Canadian companies have made significant technological advances and now provide state-of-the-art energy solutions to a multitude of domestic and international clients, including remote and urban communities, residential and commercial building operators, transportation firms, resource extraction and processing industries, manufacturing facilities and utilities.

Canadian energy companies are internationally recognized for developing tailored solutions that can be adapted to solve explicit client or site requirements. Substantial energy supply expertise exists in Canada for a variety of fuel-types and applications including integrated cogeneration systems that provide heat and power from biomass or fossil fuels, leading edge technologies that enhance combustion and electrical power generation efficiencies and/or allow systems to utilize multiple and often cleaner fuels, and innovative solutions that reduce the demand for energy and minimize fugitive emissions from related transmission and distribution systems.

Canada is also recognized as the global leader in fuel cell system technologies including a wide range of different stationary and transportation type fuel cells, invertors, reformers and testing equipment. This expertise is present across all stages of production — from research and development to manufacturing, quality control, systems integration and end-use implementation.

**For more information:**
WWW.
cleanenergy.gc.ca