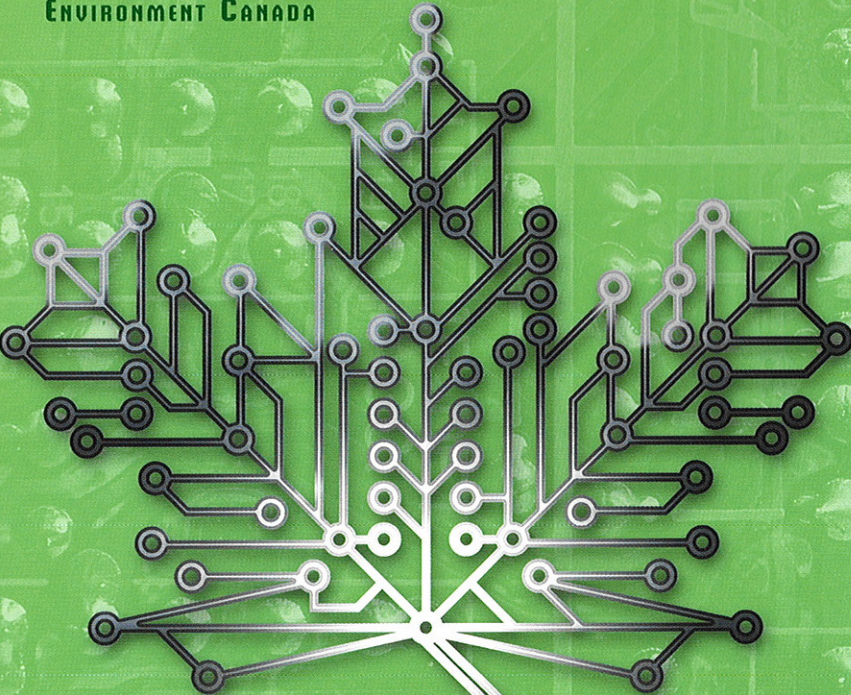


# MEETING THE CLIMATE CHANGE CHALLENGE

# Deploying Innovative Technologies

SCIENCE AND TECHNOLOGY STRATEGIES  
SCIENCE AND TECHNOLOGY BRANCH  
ENVIRONMENT CANADA



**UNDER  
Project Green** — A Plan for Honouring Our Kyoto Commitment, the Government of Canada is committed to making the transformative, long-term changes required to reduce greenhouse gas (GHG) emissions while ensuring continued economic growth. Encouraging innovation and the development of environmentally sound technologies is a key aspect of the federal government's approach to climate change. As stated in Project Green, new climate-friendly technologies can provide Canadians with the ability to reduce GHG and other harmful emissions while enjoying the benefits of a competitive economy.

To ensure that GHG emissions are reduced, the development of innovative Canadian technologies must be complemented by the promotion, commercialization, and deployment of such technologies. Major new technology programs announced by the federal government include the Technology Investment Fund, the \$1 billion Climate Fund, and the Partnership Fund. Working with key federal partners, including Natural Resources Canada, Industry Canada, and environmental funding programs, Environment Canada will be actively looking at ways to facilitate the deployment of environmental technologies addressing climate change, to ensure that the investments in technology research and development are fully realized.

Many technologies developed in Canada for securing reductions in GHG emissions have the potential to be commercialized and deployed not only in Canada, but also globally. These technologies can provide solutions to climate change problems in some of the largest emerging economies in the world, such as China and India, where associated issues of air pollution are of great concern to the health and well-being of their citizens. Under the Technology and Innovation Initiative, as part of the Climate Change Plan for Canada, funding for development has been allocated to five key areas:

- Cleaner fossil fuels;
- Advanced end-use efficiency;
- Decentralized energy production;
- Biotechnology; and
- The hydrogen economy.

To assist with the environmentally sound technology deployment objectives noted above, the Government of Canada will place additional emphasis on the following measures:

- Establishing co-benefits of technologies;
- Setting current performance standards using Best Available Technology Economically Achievable;
- Monitoring the effectiveness of the technology to reduce GHG emissions during the development and demonstration stages;
- Disseminating information through outreach mechanisms;
- Gauging potential marketplace interest; and
- Assessing fiscal, social, and regulatory barriers.

## DEPLOYING technologies

will best reflect what Canada has to offer to the world and demonstrate the Government of Canada's commitment to meet its Kyoto Protocol obligations through competitiveness and environmental sustainability principles. Technologies offer an important solution to the challenge of climate change. It is recognized that existing and future sources of atmospheric emissions over the course of the 21<sup>st</sup> century will need to be addressed — a circumstance that presents significant opportunities for deploying innovative, clean and sustainable technologies.

The Government of Canada continues to develop and implement new programs, including those announced in Project Green, to advance technology and innovation for securing domestic and global reductions in GHG emissions.

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