Program of Energy Research and Development (PERD)

Operated by Natural Resources Canada (NRCan), PERD is Canada's only federal interdepartmental R&D program focused on the non-nuclear energy sector and its economic and environmental impacts. Working with 12 SBDAs, PERD supports the development of environmentally and economically sustainable energy production and end-use technologies, particularly those that address climate change and greenhouse gas emissions. At the international level, by virtue of PERD, NRCan has fostered strong linkages through a Memorandum of Understanding with the U.S. Department of Energy and the collaborative R&D program of the International Energy Agency. In addition, PERD has ties with the European Union and the Asia-Pacific Economic Co-operation (APEC).
Web site: www.nrcan.gc.ca/es/oerd

Canada Foundation for Sustainable Development Technologies

Canada is establishing the Foundation with an initial allocation of $100 million to fund the technological innovation needed to address the difficult sustainable development challenges facing the world today. The Foundation will provide funding on a project-by-project basis in two dominant areas: new and emerging climate-friendly technologies that have the potential to reduce greenhouse gas emissions, and technologies that address clean air issues. The Foundation's activities will complement other federal programs related to sustainable development, environmental priorities and technology innovation.

Photo courtesy of National Research Council Canada

Science-Based Departments and Agencies (SBDAs)

Many departments and agencies in Canada's federal government play key roles in meeting the challenges of the globalized knowledge-based economy. Through partnerships and collaboration with universities and industry, and with other levels of government in communities all across Canada, these organizations use their core competencies, strengths in S&T, networking abilities and infrastructure support to help Canadian firms realize their future potential. Some of Canada's most active SBDAs are profiled in the following pages.

Industry Canada (IC)

Industry Canada coordinates Canada's science and technology policy. As part of this role, the department monitors the implementation of Canada's S&T Strategy, and supports the Advisory Council on Science and Technology (which provides external advice to the government on Canada's science, technology and innovation challenges and opportunities) and the Council of S&T Advisors (which provides advice to science-related Ministers). The department also conducts some research, primarily in information and communication technologies, through the **Communications Research Centre (www.crc.ca)**. In addition, Industry Canada develops and applies state-of-the-art information technologies to collect and disseminate information on science, technology and innovation opportunities **(www.strategis.ic.gc.ca)**, and promotes a strong science culture in Canada.
Web site: www.ic.gc.ca

National Research Council Canada (NRC)

NRC is Canada's premier federal scientific research organization. With 16 research institutes across Canada, NRC pursues a diverse range of scientific investigation—including the fields of biotechnology, marine dynamics, microstructural and molecular sciences, aerospace research, and measurement standards. NRC also has one innovation centre and four technology centres. NRC works in partnerships with innovative companies, universities and research organizations worldwide, in many joint activities based on formal and informal agreements.

These international collaborations and exchange programs bring an annual average of 700 visiting scientists to work in NRC labs for periods from one to three years. NRC is also Canada's adhering member in over 39 international scientific unions, most of which come under the International Council for Science. NRC's **Industrial Research Assistance Program (IRAP)** is a technology support program that provides a nation-wide network of more than 260 Industrial Technology Advisors, scientists and engineers chosen for their expertise and business experience. Using the IRAP network and program, small- and medium-sized enterprises (SMEs) have access to high-calibre technical assistance,

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