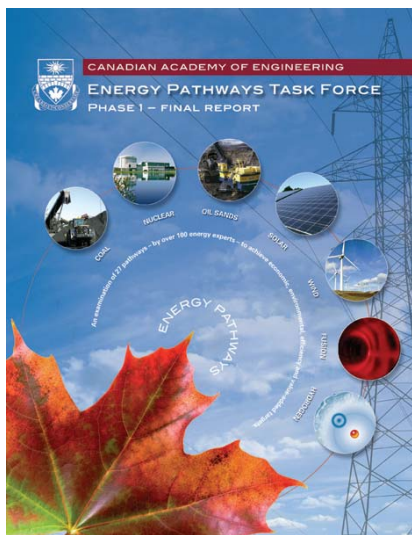


News Release

Canadian Academy of Engineering Releases its Energy Pathways Task Force Phase 1 – Final Report

Ottawa – (August 31, 2007) – Can Canada become a Sustainable Energy Superpower? The answer to this question may come from the Canadian Academy of Engineering's comprehensive review and evaluation of 27 energy 'pathways', tracing the principal routes from our rich endowment of energy sources to their ultimate end use.

The Academy undertook the examination of the various energy pathways out of a growing concern related to the collision between energy and the environment, the intersection of which represents the dominant issue facing the planet over the present century.



Working with partners who co-sponsored the Energy Pathways project and using an objective, disciplined evaluation methodology, over 100 energy experts were engaged to evaluate the potential of new and advanced technologies to achieve economic, environmental, efficiency and value-added targets. The resulting evaluations lead to the following recommendations: Canada should undertake the following three National Technology Projects:

- Gasification of fossil fuels and biomass
- Greenhouse Gas (GHG) emission reduction through carbon dioxide capture, storage and use
- Upgrades to Electrical Infrastructure, with improved access by wind and solar sources, and capacity for energy storage

The Report recommends not only these three national projects but also identifies more than ten new energy opportunities that Canada can develop over the next century that will contribute to our 'energy superpower' status.

The full recommendations provide an implementation plan for many of the priorities outlined in the Report of the National Advisory Panel on Sustainable Energy Science and Technology *Powerful Connections: Priorities and Directions in Energy Science and Technology in Canada*.

"Energy is one of the cornerstones of civilization and is central to Canada's economic and social wellbeing, but we lack a compelling national energy vision," said Dr. Ravi Ravindran, FCAE, President of the Canadian Academy of Engineering. "With huge unequalled energy resources, will Canada be able to produce upgraded energy products at reasonable prices with acceptable environmental impacts?"

Dr. John McLaughlin, FCAE, the Past President of the Academy, said that "New technology will be needed, but success will also require effective public policy and new concepts of risk sharing. Transformational changes will not be made through the efforts of individual companies, nor governments acting alone; it will require a coordinated national effort. I am confident that this report will make a meaningful contribution to the

continuing dialogue on the directions needed if Canada is to become a sustainable and environmentally sound energy superpower.”

The Canadian Academy of Engineering comprises many of the country's most accomplished engineers, who have expressed their dedication to the application of science and engineering principles in the interests of the country and its enterprises. The Academy was established in 1987, and is an active member of the *International Council of Academies of Engineering and Technological Sciences (CAETS)*, which involves 24 other leading countries.

Members of the Academy are nominated and elected by their peers to honorary Fellowships, in view of their distinguished achievements and career-long service to the engineering profession. Members work closely with the other national engineering associations in Canada, and with the other Canadian academies that comprise the *Council of Canadian Academies*.

Fellows of the Academy are committed to ensuring that Canada's engineering expertise is applied to the benefit of all Canadians, and can be identified by the FCAE after their names.

The *Canadian Academy of Engineering Energy Pathways Task Force Phase 1 – Final Report* is available at the Academy's website www.acad-eng-gen.ca

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