

## Summary

On Mar. 7, 2008 Minister of Energy Gerry Phillips announced the start of a two-phase competitive Request For Proposal (RFP) process to select a nuclear reactor vendor.

The development of new nuclear power capacity is part of the government's 20-year energy plan, first announced in June 2006. The plan focuses on reducing greenhouse gas emissions and Ontario's overall carbon footprint while ensuring a reliable, affordable and environmentally responsible electricity supply.

The announcement outlines the main components of the process including the procurement management team, a decision review board and a fairness monitor. Four internationally recognized vendors are mentioned in the announcement to be invited to participate in the first phase of the proposal process:

- AREVA NP – US Evolutionary Pressurized Reactor
- Atomic Energy of Canada Limited – ACR 1000 Advanced CANDU Reactor
- GE Hitachi Nuclear Energy – Economic Simplified Boiling Water Reactor
- Westinghouse Electric Company – AP 1000™ nuclear power plant

The announcement is available online at [Ontario Takes Next Step To Ensure Clean, Affordable And Reliable Energy Supply For Generations To Come](#)

## Ontario Nuclear Energy System

At present Ontario has a total electricity generating capability of 25.8 GW of which 9.2 GW in nuclear, 7.2 GW in hydro, 4.0 GW in coal and the rest in oil, gas and other sources including renewable energy. The total installed capacity is 35.1 GW. Additional details are available online at [Ontario's Electricity Supply Mix](#).

Ontario has three nuclear power plant sites, with 20 reactors (units), total installed capacity 14.0 GW. Two units at Pickering are on long-term lay up (out of service), as Ontario Power Generation determined in 2005 that it was not economically feasible to refurbish them. Two other units at Bruce Power are being refurbished at present and the total operating capacity is now 11.2 GW:

- Pickering Generating Station (six operating units)
- Darlington Generating Station (four operating units)
- Bruce Power (six operating units)

Additional details are available at [Ontario's Nuclear Power Plants](#).

The Ontario Government's 20-year energy plan has specific targets; the nuclear energy capacity will be maintained to the level of 14.0 GW and the coal-fired generation will be eliminated by 2014. The development of reliable energy sources, including new nuclear reactors, and the aspects regarding the safety and environment implications were debated in various organizations and the Ontario Government is now moving ahead.

### **The Selection Process**

The competitive process consists of two phases:

- Phase One – submission May 2008; proposals for evaluating respondent's regulatory, compliance, project implementation, financial strength capability.
- Phase Two – submission starting June 2008; proposals for evaluating respondent's financial and commercial terms, operating and decommissioning costs, domestic economic value added.

Additional details and other information on Project Governance Structure are available at: [Competitive Request For Proposal Process](#).

### **Opportunities for US firms**

U.S. exporters have interesting new opportunities presented to them by the procurement process initiated by this announcement. In addition to the opportunity for a U.S. vendor of nuclear reactors, many opportunities will be opened for manufacturers of a large variety of ancillary equipment necessary to be supplied for the reactor as well as for the classical part of the electricity generating plant.

### **The U.S. Commercial Service Support**

The Commercial Service of the U.S. Department of Commerce is prepared to bring additional strengths and support for the interested U.S. Exporters by providing further insights regarding the implementation of this program as well as for other Canadian market opportunities. The U.S. Commercial Service offers a number of excellent programs to help export-ready companies identify and establish relationships with potential partners on the Canadian markets

Additional information on customized International trade counseling, international market research on countries and industries worldwide and exposure for your company at global promotional events can be found at <http://www.buyusa.gov/canada>

### **For More Information**

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### **Information Sources for this Report**

Ontario Ministry of Energy <http://www.energy.gov.on.ca>