

Take the case of Exotemp Ltd. of Pembroke, Ontario. Established in 1989, this company has quickly become a world leader in the field of microclimate systems. With sales totaling \$4 million in 1991 and markets in Australia, India, Saudi Arabia, Spain, the United Kingdom, Canada and the United States, Exotemp's products dramatically extend human performance in conditions that would normally be unbearably hot.

The cooling system consists of close-fitting garments with thin plastic tubes sewn into a light, stretchy fabric and connected to a control switch and portable battery-operated coolant packs. These garments have helped people with medical conditions, race-car drivers, asbestos contractors, and bomb disposal technicians, and they contributed to the great success of Canadian oil-well firefighters in Kuwait last year.

Or take the example of two of the companies that have been created from AECL to pursue non-energy applications of nuclear technology. Theratronics was a pioneer in radiation therapy when it developed the world's first Cobalt 60 cancer treatment machine in 1951. Now Theratronics has built a solid business around the world with its computer-based treatment planning machines. Theratronics sales last year were some \$48 million. About 85 per cent of those sales came from exports.

Nordion International Inc. is another globally competitive company that has grown from AECL. As a leading international producer, marketer and supplier of radio-isotope products and related equipment, Nordion sales exceed \$100 million annually; 90 per cent of those sales are exports. Nordion offers an excellent example of how the technology that was developed to serve Canada's energy needs has been used to help respond to non-energy purposes.

Nordion is the world's largest supplier of the radio-isotope Cobalt 60, which has been used for years as an energy source in cancer therapy. The market will undoubtedly expand as the technology evolves to use Cobalt 60 to combat food-borne disease and to disinfect hospital wastes and sewage sludge. Nordion has recently contracted with AECL for new medical diagnostic radio-isotopes.

In order to meet a growing expected demand, Nordion is providing funding for AECL to construct the first commercial reactor devoted exclusively to the production of medical radio-isotopes.

Nordion, Theratronics and Exotemp Ltd. are three Canadian success stories that grew out of the technology created by the nuclear energy industry. But other companies have built products and services by responding to the needs of the market.

Take CAE Electronics -- a company with a worldwide reputation as a builder of flight simulators. It is now tapping a lucrative market for simulator training of nuclear and thermal power plant operators.

Whether they develop and market nuclear technology, or provide goods and services for the nuclear industry itself, these companies are