

AECL

COMPANY PROFILE



Atomic Energy of Canada Limited is one of the world's leading nuclear technology companies, providing services to nuclear utilities on four continents. Established in 1952, AECL is the designer and builder of CANDU® technology, including the CANDU 6, one of the world's top-performing reactors.

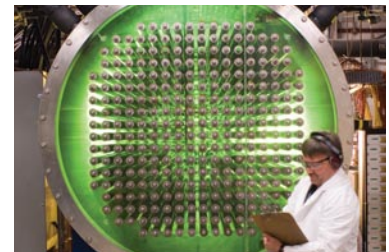
Advanced CANDU Reactor® A world-leading design gets better

CANDU reactors have achieved international acclaim for providing safe, economical and reliable electricity production. There are 48 heavy water reactors based on the CANDU design in operation, under construction, or under refurbishment worldwide. AECL is building on this success with the new Advanced CANDU Reactor (ACR-1000®), which is an evolutionary reactor based on the proven success of the original CANDU design.

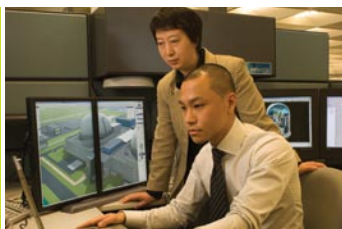
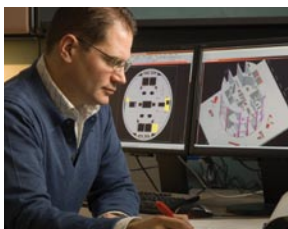
ACR-1000

The ACR-1000's proven CANDU features include horizontal fuel channel design, on-power fuelling, simple, easy to handle and manufacture fuel design, low-pressure heavy water moderator — inherent passive core cooling capability — and two independent, fast-acting safety shutdown systems with a unique inherent emergency-cooling capability.

The units are designed with a planned operating life of 60 years, and a projected average annual capacity factor of more than 90 per cent.



AECL's 4,300 employees deliver specialized services, including R&D support, design and engineering, construction management, spent fuel management, refurbishment, and decommissioning in support of CANDU reactor products. AECL also manages and operates the Chalk River Nuclear Laboratories in Chalk River, Ontario, and performs research; produces isotopes used in nuclear medicine and other applications; stores and manages nuclear waste; and decommissions nuclear facilities.



An international track record of success

AECL and its private sector Team CANDU® partners, backed by a supply chain represented by the Organization of CANDU Industries, have been building reactors almost continuously for the past 30 years and have the strongest core delivery capability of any nuclear vendor in the world. Having designed, built and delivered six CANDU reactors to international customers in the past decade — all on or ahead of schedule and on budget — Team CANDU has a track record unmatched by any other nuclear vendor.



Leading R&D company

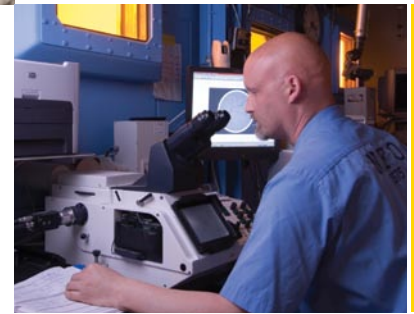
Through the groundbreaking work of several thousand engineers, technicians, and top Canadian scientists, AECL has made many other contributions beyond the nuclear energy field.

The National Research Universal (NRU) reactor, located at AECL's Chalk River facility, is the world's primary source of radioisotopes produced for use in nuclear medicine. Canada is the world's leading supplier of medical isotopes used to diagnose, prevent and treat diseases in more than 80 countries. Canada also produces more than 75 per cent of the world's supply of Cobalt-60, used to sterilize disposable medical supplies.

Excellence in service

For more than 50 years, AECL has performed the underlying research and development and design as well as construction of CANDU stations on four continents. Our CANDU Services team provides customers with the benefits of our unparalleled knowledge of CANDU technology, our global experience and our extensive project management expertise.

We partner with industry leaders to develop effective solutions that increase safety, optimize performance and extend plant design life — helping to reduce operations and maintenance costs, and improve capacity factors.



Operating for more than 50 years, the NRU reactor is truly a unique resource for scientists across Canada, and has acted as a gateway for Canada to the international science community.

CANDU®, Advanced CANDU Reactor®, ACR-1000®, and Team CANDU® are registered trademarks of Atomic Energy of Canada Limited.

AECL: Partnerships that power the world

For more information visit www.aecl.ca

