

LEADING SOLUTIONS ACROSS THE NUCLEAR LIFECYCLE



Best-in-class solutions to maintain and refurbish nuclear assets

As nuclear energy plants age, keeping them operating safely and efficiently is critical to meeting climate goals while ensuring a stable supply of clean, affordable power. Laurentis has the experience and expertise to help clients throughout the entire lifecycle of a nuclear reactor, from inspections and maintenance to complete refurbishment, all the way to decommissioning and safely managing waste products.

Experience

Laurentis leverages decades of nuclear power knowledge through its parent company, Ontario Power Generation (OPG).

Expertise

Laurentis has extensive capabilities in nuclear project management, inspections, engineering, training, and nuclear waste and materials recycling.

Innovation

Laurentis is a leading provider of innovative, full-service solutions to keep nuclear plants operating.

Project Management Organization for refurbishment

Laurentis's Project Management Organization (PMO) for refurbishment brings best-in-class nuclear management and operations experience to meet your project needs. The company's nuclear expertise ensures that your refurbishment project will be managed with the utmost care and delivered on time and on budget.

Our projects

Ontario Power Generation's Darlington refurbishment

Laurentis provides OPEX and technical assistance, Owner's Engineer, feasibility studies, and contract management services for OPG's four-unit nuclear refurbishment.

SNN's Cernavoda refurbishment

Canadian Nuclear Partners S.A. (CNPSA), a subsidiary of Laurentis, provides PMO services to SN Nuclearelectrica S.A. (SNN) for the preparation and implementation of the Cernavoda Nuclear Power Plant Unit 1 Refurbishment Project in Romania. Services include project management services, technical assistance, consultancy, training specific to CANDU plant refurbishment, and organization and coordination of the commissioning, up to the commercial operation of the reactor after refurbishment.

Nuclear lifecycle services: Solutions to keep your reactors running safely and efficiently

Maintenance and inspections

Laurentis has proven project experience, including overseeing Spacer Location and Repositioning campaigns, aerial inspections, and Channel Inspection and Gauging Apparatus for Reactors, to keep nuclear plants running safely and at optimal efficiency.

Engineering

Laurentis has a strong track record of delivering engineered solutions that improve plant performance and keep nuclear power plants online longer.

Training

Laurentis trains nuclear specialists from around the world in every discipline of the industry, including project management, inspections and maintenance, refurbishment, and engineering.

Licensing and regulatory affairs

Laurentis understands what regulators and oversight bodies expect from nuclear operators, and has a team dedicated to helping clients ensure compliance and continued operation.

Decommissioning

Laurentis offers radiation protection services to support decommissioning.

In 2023, Laurentis partnered with McMaster University to decommission a Class II RDS-112 Cyclotron at the McMaster University Medical Centre, which for decades had produced short-lived positron-emitting isotopes used for diagnostic imaging and research.



Expertise in low-level nuclear waste management

With its Clean-Energy Materials Sorting and Recycling Initiative in partnership with McMaster University in Hamilton, Ontario, and its Western Clean-Energy Sorting and Recycling facility in Tiverton, Ontario, Laurentis's nuclear waste services are in a league of their own. Innovative research paired with real world commercial applications provides clients with proven cutting-edge solutions to achieve their environmental objectives.

Laurentis has quickly established itself as a leader in every aspect of the nuclear industry. From SMRs to isotopes to inspections, maintenance, and refurbishment, this company is a go-to partner for those looking to harness the incredible power of nuclear energy.

Aida Cipolla

Director, Laurentis Board of Directors

CMSR: A Laurentis clean-energy recycling success story

With the Hamilton Clean-Energy Materials Sorting and Recycling Initiative (CMSR), Laurentis technicians are discovering new methods and technologies, such as automated sorting and optimized radiation detection methods, to further sort and help divert more nuclear byproducts to re-use and recycling. Laurentis has achieved a 60 per cent material volume reduction, which equates to more than 2,000 metric tons of material, the equivalent weight of 316 African elephants.

WCSR: The efficient, environmentally friendly solution for low-level waste

The Western Clean-Energy Sorting and Recycling facility (WCSR) builds on learnings from the CMSR by delivering efficient, innovative, and advanced sorting processes. The WCSR reduces the volume of low-level waste associated with nuclear power production, which means lower costs and a smaller environmental footprint.

About Laurentis

Laurentis is built around the simple but powerful idea that harnessing the power of nuclear energy can lead to a cleaner and healthier future for the next generation. Every day, Laurentis helps clients around the world bring that vision to life.

As a commercial subsidiary of Ontario Power Generation – one of North America's largest and most diverse clean-energy generators and innovators – Laurentis brings unparalleled real-world experience and technical expertise to tackle the toughest challenges. From project management to engineering services, to nuclear medicine and a range of isotope applications, to small- or large-scale asset refurbishments, to state-of-the-art system software and inspection technologies, Laurentis has the right solutions to help customers succeed.

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