

# THE SOURCE



LICENSED FACILITIES



## *ENERGYSOLUTIONS* C A N A D A

Located in Brampton, Ontario, EnergySolutions Canada Walker Operations (ESWO) is a radioactive waste and materials management facility. It operates under a broad Canadian Nuclear Safety Commission (CNSC) waste nuclear substance license designed specifically to meet the low-level radioactive waste, reactor tooling, and refurbishment needs of the CANDU reactor fleet, research laboratories, and hospitals. In addition to the ESWO facility, we operate an 80,000-square-foot licensed storage facility located in the Greater Toronto area that supports the Canadian nuclear market.

### Value-added, unique services for the Canadian nuclear industry

- Design of specialized processing systems and customized licensed areas and containments to eliminate the need for client on-site facilities
- Support to new projects involving low-level radioactive materials within the facility's annual activity throughput limit of  $1 \times 10^{15}$  Bq
- Emergency response support, including licensed emergency response assistance plan (ERAP)
- Cost-effective solutions for radioactive materials management and classification including additional processing at U.S. facilities in Tennessee
- On-site certified shipping brokers and health physicists with expertise in requirements of the Transportation of Dangerous Goods (TDG), CNSC, U.S. Nuclear Regulatory Commission (NRC), and U.S. Department of Transportation (DOT) for management and transportation of radioactive materials
- Import/export authorization for cross-border transport between the U.S. and Canada

LICENSED FACILITIES  
COMPRISE NEARLY

**300,000  
SQ.FEET**

CUSTOMIZED RADIATION  
CONTROLLED AREAS

CATALOGING, REPACKAGING,  
CHARACTERIZATION,  
DECONTAMINATION &  
FREE RELEASE

LICENSED, CLIMATE  
CONTROLLED,  
SECURE STORAGE

REACTOR TOOLING, EQUIPMENT  
DECONTAMINATION &  
REFURBISHMENT

PACKAGING, TRANSPORTATION  
& CLASS 7 BROKERAGE

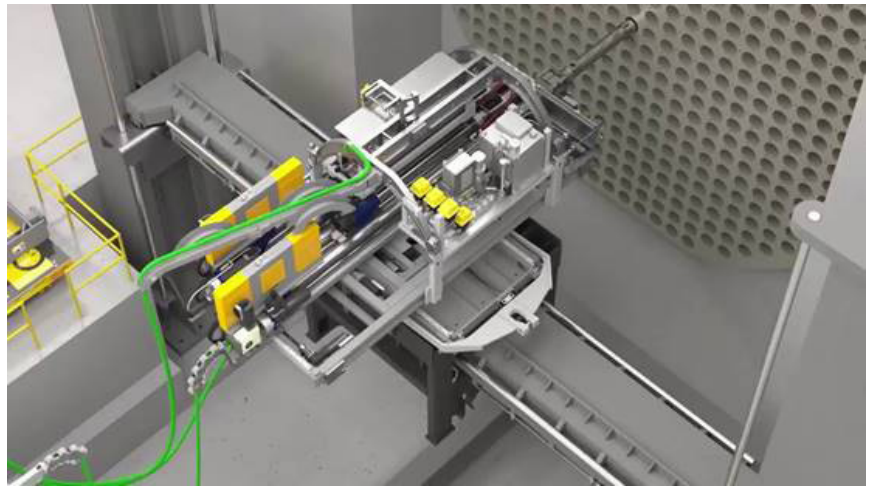
DISPOSITION OF DAW, LIQUIDS,  
METALS, COMPONENTS & RESINS

# EnergySolutions Canada (ESC) supports the Canadian nuclear industry in maintaining the highest safety levels.

## CASE IN POINT:

### Bruce Reactor Inspection and Maintenance System (BRIMS) Project

ESC is offering CNSC-licensed space, facilities, and radiation protection expertise as Bruce Power conducts inspections and testing on reactor tooling, such as the Channel Access Device (ChAD)—the main delivery component of this innovative system. As part of our dedication to providing exceptional customer service and addressing all client needs, ESC is able to facilitate maintenance of tooling and equipment on demand. ESC has been providing support for this project since 2017. 🇨🇦



# ESC is a leader in the development of innovative processing methods of nuclear waste.

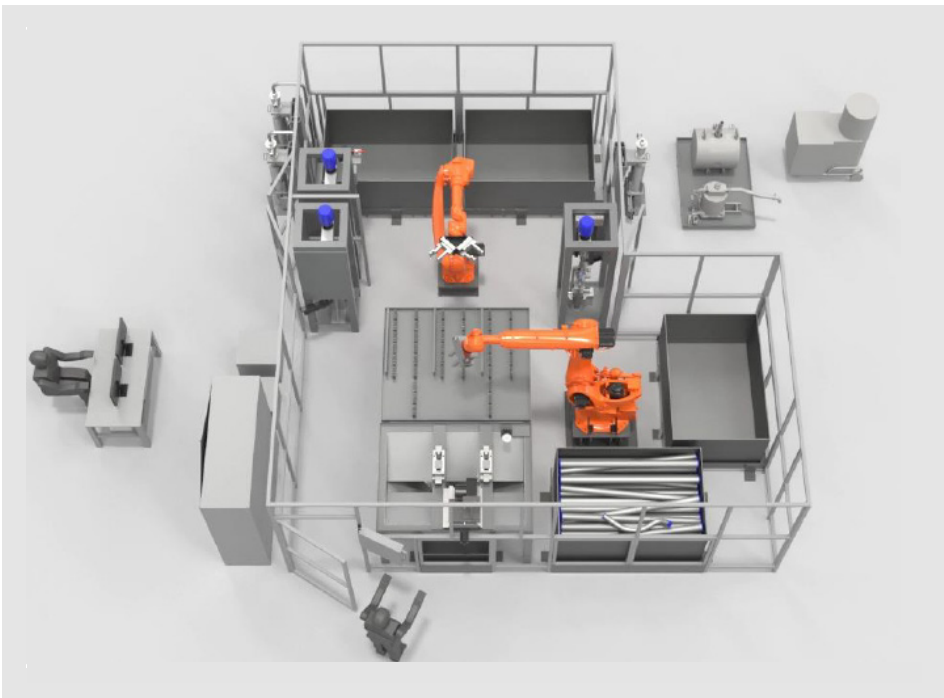
ESC has been contracted by Ontario Power Generation (OPG) to participate in determining the feasibility of feeder pipe decontamination.

The success of this collaboration has led to additional investment and the eventual award of a two-phase contract. Phase 1 required us to demonstrate the capability to

decontaminate a 40-cubic-meter feeder pipe to meet metal melt acceptance criteria for recycling and volume reduction. Phase 2 would involve increasing the volume to 1,160 cubic meters.

Results from Phase 1 led ESC to begin a joint venture with ATS Automation to design and fabricate an almost completely

robotic system, addressing potential dose exposure to operators. Our commitment to safety for workers and their communities demonstrates the significant role ESC plays in Canada's Green Energy goals. 🇨🇦



ESC has contracted with Laurentis Energy Partners (a subsidiary of OPG) to provide license support for a new nuclear materials sorting facility in Kincardine, Ontario. The facility will be called Western Clean-Energy Sorting and Recycling (WCSR). The purpose of the facility is to sort low-level radioactive materials (used worker garments, small tools, mops, and rags) to reduce volumes through processing while maximizing the recycling and free release of clean materials.



## Logistics & Transportation

EnergySolutions' subsidiary PHTS Logistics, located in Elmwood, Ontario, is a leader in Truckload (TL) and Less Than Truckload (LTL) logistics services across Canada and the United States. EnergySolutions Canada manages equipment and transportation needs to our U.S. facilities through PHTS and EnergySolutions' subsidiary Hittman Transport Services (HTS). Its fleet transports shipping casks, sealand containers, and flatbeds throughout North America. HTS transports more than 300 radioactive shipments per month and offers the following assets and services:

- Largest fleet of tractors and trailers dedicated to the nuclear industry
- Road, rail, and marine options
- Extensive fleet of reusable IP-I and IP-II ISO containers and tankers

## Processing at U.S. Facilities

ESC has access to EnergySolutions' dry active waste, liquids, metal, and resin processing facilities located in Tennessee. Waste accepted at the ESWO facility is processed through a rigorous screening process, packaged, and transported by truck or rail.

ESC is an Ambassador for the Centre for Canadian Nuclear Sustainability (CCNS), where we will help advance innovative and sustainable solutions for the nuclear life cycle.



Centre for Canadian Nuclear Sustainability

## Meet ESC General Manager

**Kevin Messervey** has been with EnergySolutions for 13 years, starting as a Radiation Technician, moving on to Operations Supervisor and Logistics Manager, and eventually being promoted to General Manager of ESC in May 2020. Kevin has witnessed tremendous growth while working in the Canadian offices with radioactive shipments increasing from 50 to more than 1,300 per year. Prior to working for EnergySolutions, Kevin was an NDT technician and worked at every reactor at Bruce Power and OPG.

In his free time, he loves to travel with his fiancé. He says his most memorable trip over the years was his visit to Iceland in September 2022.

