



*Energizing a clean-air world*

# Introduction to Cameco

November 26, 2024



# Safety Moment

Slip-and-fall safety tips during winter weather



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- Wear appropriate footwear with good traction
- Keep your hands out of your pockets for balance and use handrails when possible
- Clean caked snow and ice out of the tread of your shoes
- Stay on cleared walkways
- Spread sand or salt on icy surfaces
- Take short, small steps



# Today's Agenda



WHO WE ARE &  
WHAT WE DO



PORT HOPE  
CONVERSION  
FACILITY



VISION IN  
MOTION



CAMECO FUEL  
MANUFACTURING



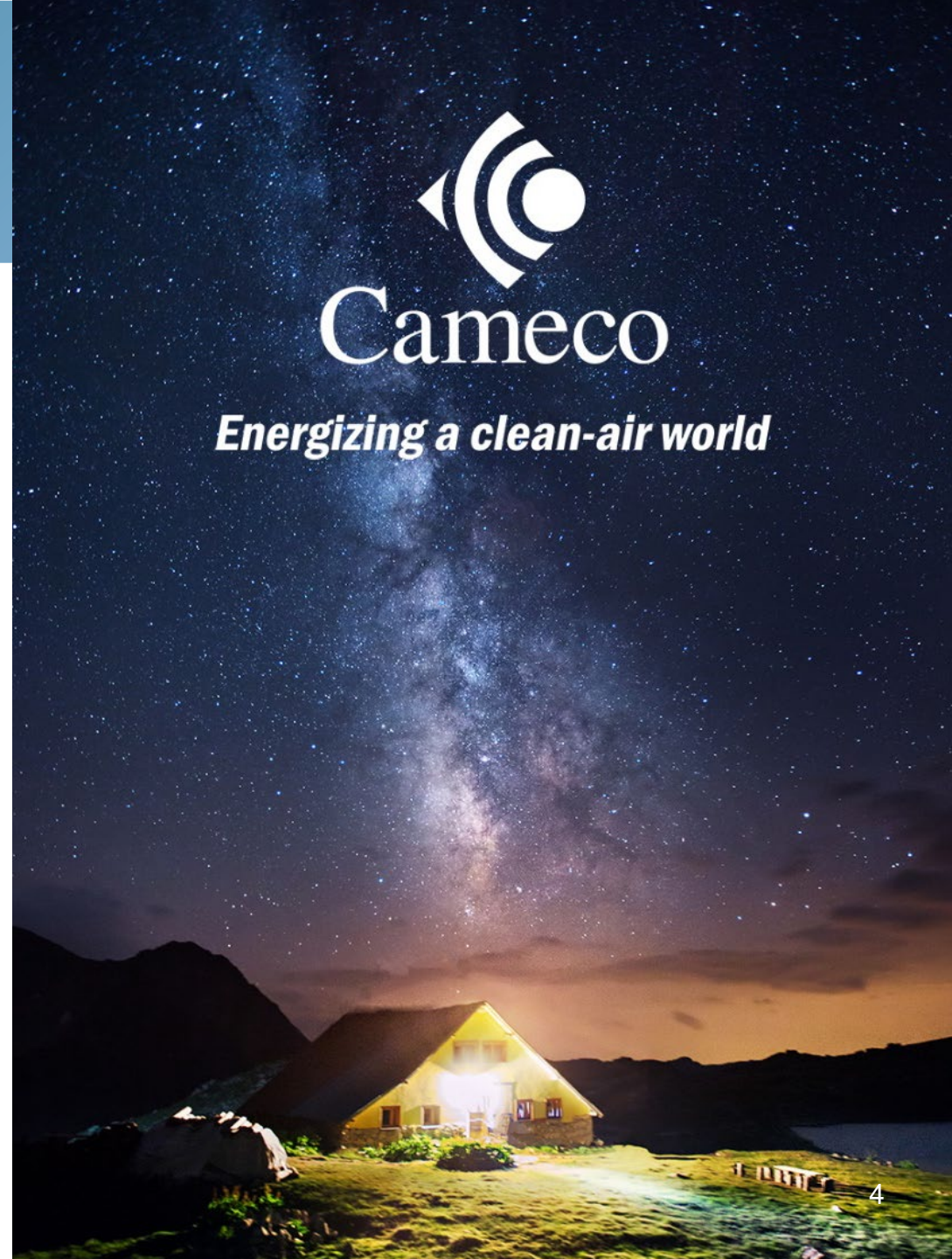
IN THE  
COMMUNITY

# Vision and Strategy

- Our Vision is aligned with world's growing need for carbon-free energy
- Nuclear power can help avoid some of the worst consequences of climate change
- Our Strategy is successfully positioning Cameco to achieve our Vision



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# Our Facilities

Ontario Operations



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**Blind River Refinery**  
World's largest commercial uranium refinery


 Produces Uranium trioxide powder


 155 Workers

 Licensed to 2032



**Cameco Conversion Facility**  
Canada's only uranium conversion facility

 Produces uranium hexafluoride and uranium dioxide

 21% of the world's UF<sub>6</sub> conversion capacity

 394 workers

 Licensed to 2027




**Fuel Manufacturing**  
Manufactures reactor components and CANDU fuel

 Products used to generate electricity around the world

 Safely manufactured over 1.5 million fuel bundles

 279 workers

 Licensed to 2043 (Port Hope)

# Employment

## Port Hope Conversion Facility (PHCF)

- 18% of PHCF workforce live in Port Hope
- 81 new external hires in 2024
- 6 new positions added

## Cameco Fuel Manufacturing

- 20% of CFM workforce live in Port Hope
- 37 new employees this year, including 4 students



**800+**  
**employees**  
**in Ontario**



# Protection of People & Environment



Long history of safe and responsible operations

Committed to safeguarding the health and safety of our employees, contractors and members of the public

Emergency response program includes trained personnel who are equipped to respond to any potential situation

Compliant with all CNSC regulations and additional regulatory bodies including:

- Environment and Climate Change Canada
- Employment and Social Development Canada
- Ontario Ministry of the Environment, Conservation & Parks

# Our Performance

Safety and Environmental Monitoring

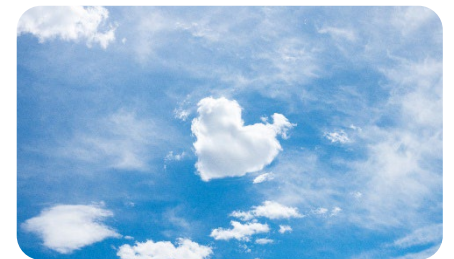


## The CNSC regulates 14 Safety & Control Areas (SCAs)

- Licensing manuals outline how we meet these requirements (<https://www.camecofuel.com/business>)
- Quarterly and annual compliance reports are available to the public

## Environmental monitoring:

- We conduct air and water emission monitoring, surface and groundwater monitoring and high-volume air sampling
- All emissions are just a fraction of the regulatory limits
- In full compliance with all applicable regulations





# FSD achieves climate action success



- Cameco has committed to reducing Scope 1 and Scope 2 emissions by 30% by 2030

## What we have achieved so far:

- 28% reduction to peak power demand since 2015
- \$2.1 million in annual energy savings

Fuel Services Division's latest climate actions are projected to reduce annual emissions by nearly 5,000 tonnes of carbon dioxide equivalent to the amount of carbon sequestered by nearly 80,000 tree seedlings grown for 10 years.\*

# Port Hope Conversion Facility

Production



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PHCF supplies uranium conversion services to produce fuel for the generation of safe, clean and reliable electricity in Canada and around the world

Uranium hexafluoride ( $UF_6$ ) plant ships product internationally for use in light water reactors

Uranium dioxide ( $UO_2$ ) plant is the world's only commercial supplier of  $UO_2$  conversion services for CANDU nuclear reactors

One  $UF_6$   
cylinder



provides enough fuel to power a city of **90,000** people for one year

$UO_2$  provides the uranium products used to fuel approximately **60% of all electricity generated in Ontario**



# Closed Loop Cooling System

- **Old system:**
  - Lake water was pumped from the Port Hope harbour to cool various processes onsite before being returned to the harbour
  - Water was only used for cooling and was not mixed with any substances
- **New system:**
  - Circulates cool water through the system in a consistent temperature year-round
  - Reduces maintenance challenges from vegetation or lake debris in the system
  - Eliminates any potential for substances to get into the lake

# Emergency Preparedness

Emergency exercises

New fire trucks at PHCF



# Vision in Motion

The Removal of Building 27



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- Estimated time to complete the demolition of Building 27 was 125,000 hours
- Building 27 was safely and methodically demolished without any safety or environmental incidents
- 3,000 'Supersacs' were safely shipped to the LTWMF in designated shipping containers between 2019 and 2024.



# Cameco Fuel Manufacturing

## Port Hope & Cobourg, Ontario



Supplier of specialized metals and fabrication services



Over 1.5 million CANDU fuel bundles produced to date



Licensed annual capacity of 1650 tU as natural fuel bundles for CANDU reactors



Licensed to **2043**



# Medical Isotopes

## Cobalt -60

CFM produces Cobalt adjuster sets and other hardware for the irradiation of Cobalt 59 to Cobalt 60.



Each year, more than 40 million medical procedures are performed using medical isotopes worldwide

## Lu-177

CFM produced the in-core hardware to deliver Lu-177 into and out of the CANDU core.



The energy produced in nuclear power reactors like Bruce Power's is created using the fuel bundles from CFM. This energy is harnessed to produce life-saving medical isotopes

# In the Community

Keeping the Community Informed



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Stakeholders, Indigenous communities and members of the public

We make information available in several ways

Public Disclosure Protocol

Public Polling (Summer 2024)





# In the Community

Making a Difference



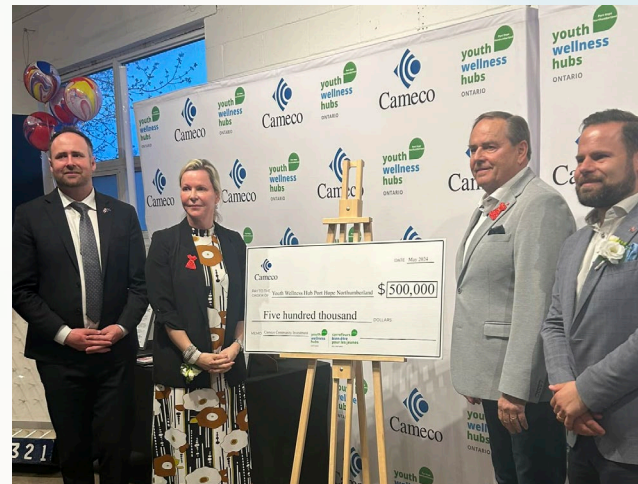
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Regular community support for events, programs and organizations that make a positive difference.

**\$118,000 available in  
Northumberland County**

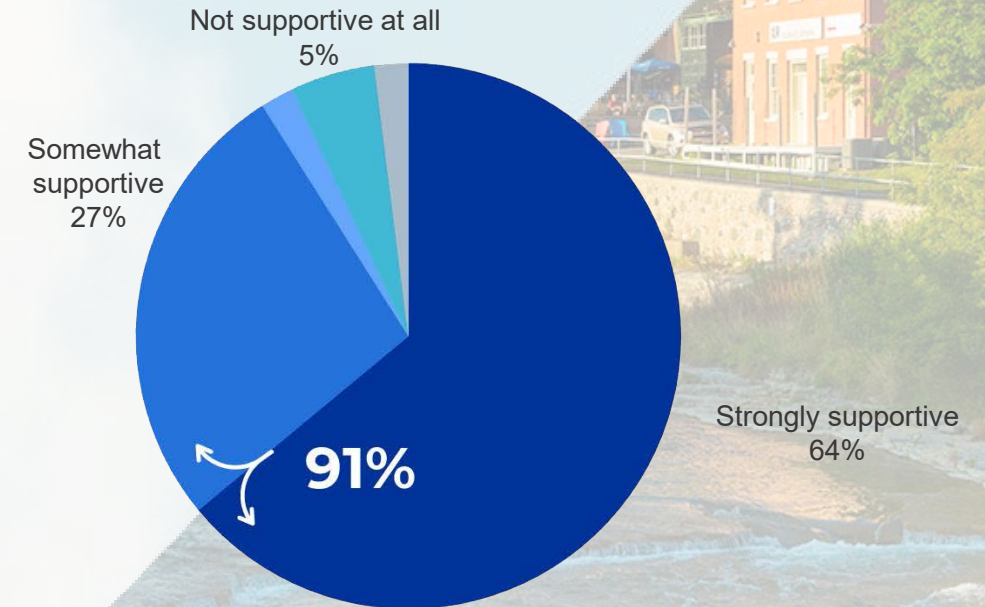
**Cameco Fund  
for Mental Health**  
Application now open

Funding decisions to be  
announced in December



# Public Polling results

- 91% support the continuation of Cameco's operations in Port Hope
- 84% are confident Cameco has the environmental monitoring in place to protect Port Hope
- 82% are proud to have Cameco in the Port Hope community



Read the report on [camecofuel.com](http://camecofuel.com)

# Thank you!



## Questions?

### Contact Information

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 [camecofuel.com](http://camecofuel.com)