



***Energizing a clean-air world***

# **Global Uranium and Nuclear Energy Market**

**SMA Mining Week 2023**

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**Senior Vice-President, Chief Operating Officer**

*May 30, 2023*



# Forward-Looking Information Caution

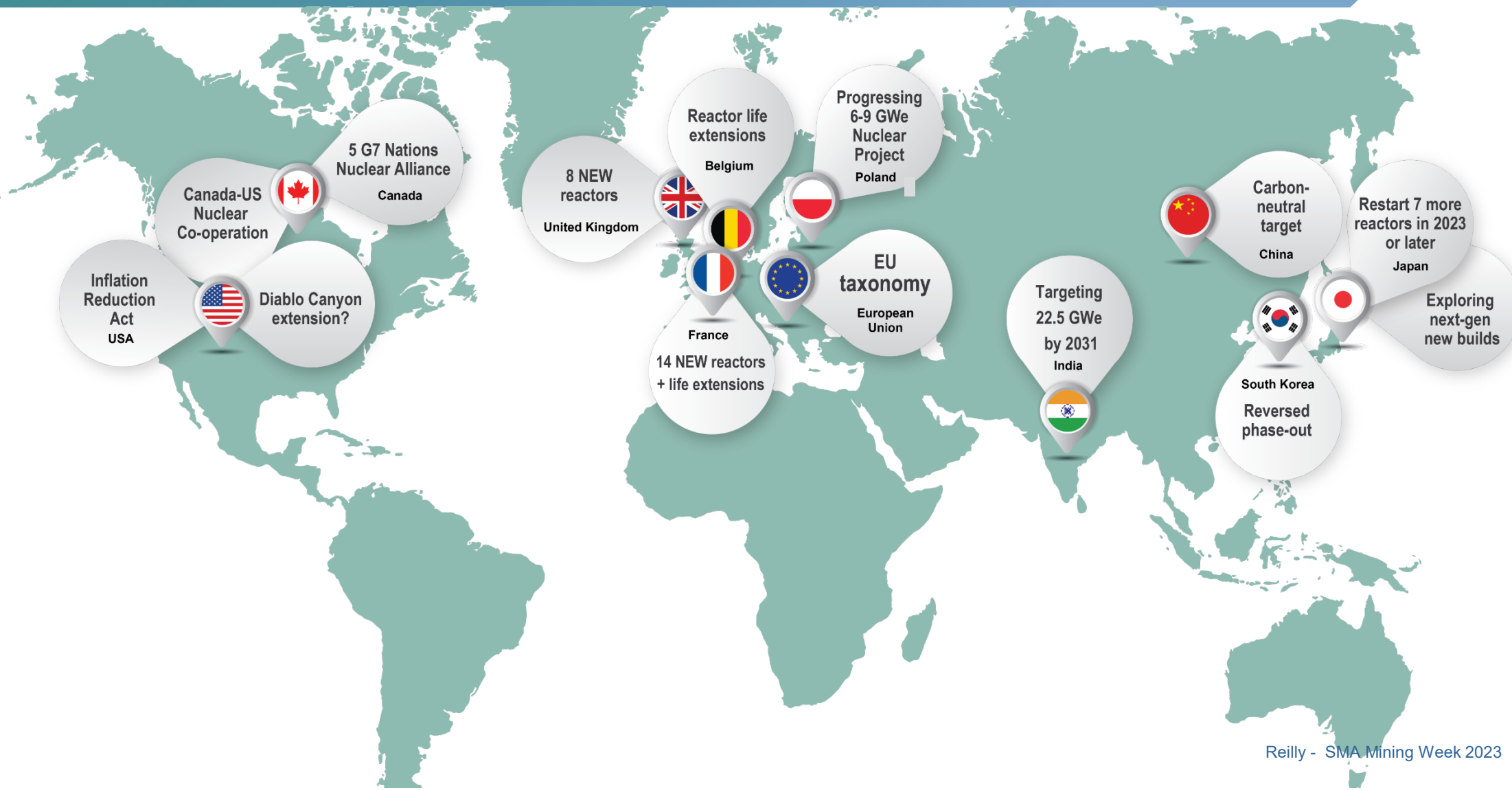
This presentation includes forward-looking information or forward-looking statements under Canadian and US securities laws, which we refer to as forward-looking information. This information about our expectations for the future is based upon our current views, which can change significantly, and actual results and events may be significantly different from what we currently expect. Examples of forward-looking information that may appear in this presentation include our expectations regarding uranium demand, supply, consumption, prices, long-term contracting, production and our ability to meet delivery commitments; the outcome of litigation or other disputes; our future plans, strategies and outlook; our objectives regarding contributing to a net-zero carbon emission target and other environmental, social and governance goals. Material risks that could lead to a different result include: unexpected changes in uranium supply or demand, our production, purchases, sales, costs, taxes, our mineral reserve and resource estimates, prices or availability of secondary supply, spot and long-term contract prices, currency exchange rates, or government regulations or policies; the risk of litigation or arbitration claims against us that have an adverse outcome, including tax disputes; the risk that our contract counterparties may not satisfy their commitments; we may face disruptions to our operations, workforce, required supplies or services as a result of social, economic or health developments, including the COVID-19 pandemic; we may face unexpected challenges in addressing environmental, social and governance risks and opportunities; the risk that our strategies may be unsuccessful or have unanticipated consequences; and the risk our estimates and forecasts prove to be inaccurate. In presenting this information, we have made material assumptions which may prove incorrect about: uranium demand, supply, consumption, long-term contracting and prices; our production, purchases, sales, and costs; taxes and currency exchange rates; market conditions and other factors upon which we have based our future plans and outlook; the success of our plans and strategies; the agreement of our partners with our plans and strategies; the accuracy of our estimates; the absence of new and adverse government regulations or policies; the successful outcome of any litigation or arbitration claims against us, including tax disputes; our ability to successfully manage operational and other impact of any disruption resulting from social, economic or health developments, including the COVID-19 pandemic; our ability to address ESG risks and opportunities successfully; and our ability to complete contracts on the agreed-upon terms. Please also review the discussion in our most recent annual MD&A, any subsequent quarterly MD&A and our most recent annual information form for other material risks that could cause actual results to differ significantly from our current expectations and other material assumptions we have made. Forward-looking information is designed to help you understand management's current views of our near-and longer-term prospects, and it may not be appropriate for other purposes. We will not necessarily update this information unless we are required to by securities laws.

# Outline

- Tailwinds for Nuclear
- Supply Challenges
- Cameco's Strategy
- Invested Across Nuclear Fuel Cycle
- Production Plans & Flexibility
- Innovation, ESG & Sustainability
- Working Together as an Industry

# Growing Support for Nuclear

Full-cycle demand continues to improve



# North American Nuclear Fuel Cycle

Government and industry call to action

- Create a more unified North American nuclear fuel cycle;
- Enact, support and sustain favourable government policies;
- Ensure regulatory environment doesn't push timelines beyond window of opportunity;
- Re-establish the combined reliability of the North American nuclear fuel cycle from the mine to the reactor





# Broad Government Support

Joint Statement - March 27, 2023



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## JOINT STATEMENT BETWEEN THE DEPARTMENT OF ENERGY OF THE UNITED STATES OF AMERICA AND THE DEPARTMENT OF NATURAL RESOURCES OF CANADA ON NUCLEAR ENERGY COOPERATION

From: [Natural Resources Canada](#)

### Statement

The United States of America and Canada share the common vision of a safe and secure global energy system. Last week, President Joseph Biden and Prime Minister Justin Trudeau, meeting at Ottawa, Canada, affirmed their intent to promote enhanced collaboration on nuclear energy and technology between their two countries. As such, the Department of Energy of the United States of America (DOE) and the Department of Natural Resources of Canada (NRCan) have made the following statement:

Enhancing our partnerships is more important than ever given the current global challenges we face. Russia's unprovoked and unjustifiable war against Ukraine and the increasing impacts of climate change have fundamentally

Department of Energy

## Joint Statement Between the Department of Energy of the United States of America and the Department of Natural Resources of Canada on Nuclear Energy Cooperation

MARCH 27, 2023

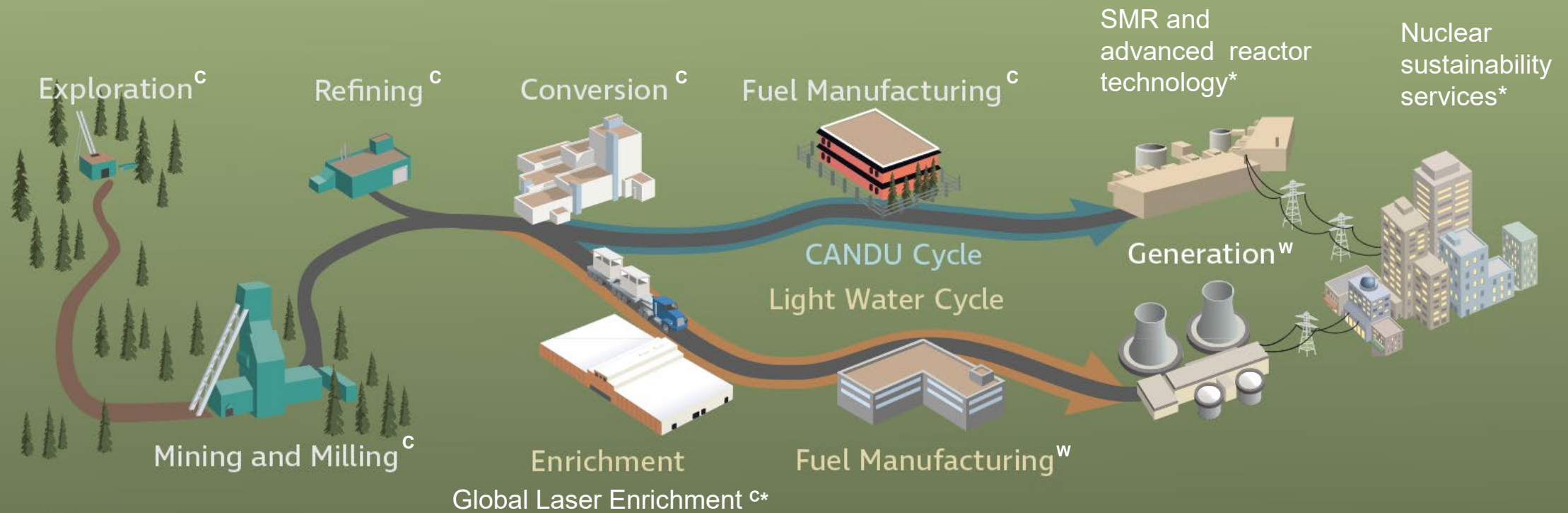
[Energy.gov](#) »

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# Nuclear Fuel Cycle



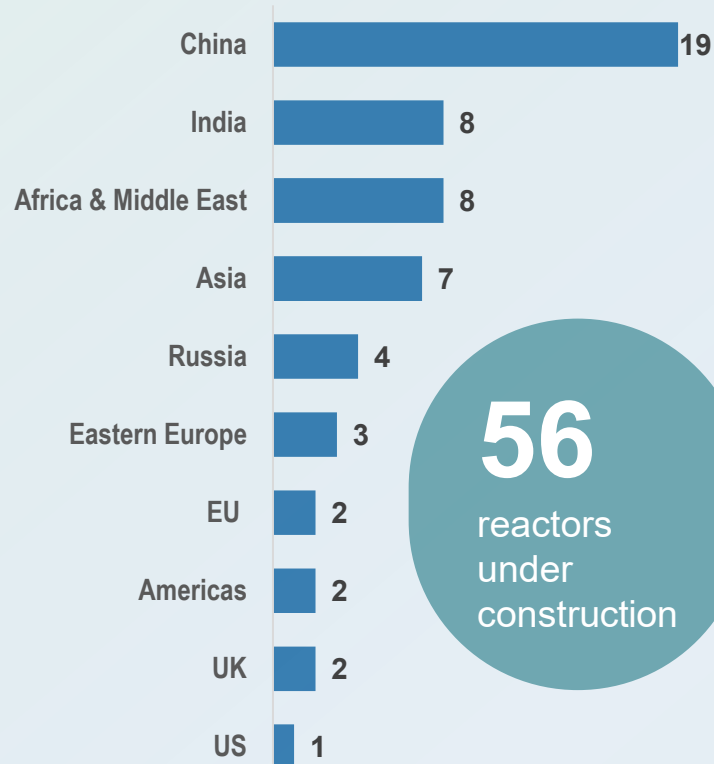
C – Cameco  
W – Westinghouse

\* Emerging Opportunities

# Improving Nuclear Power Outlook

Increased term contracting, improving market prices

## Growth from New Reactors



Source: IAEA

## Demand Increasing

### Near-Term

- Reversal of early retirement / closures
- Geopolitical impacts

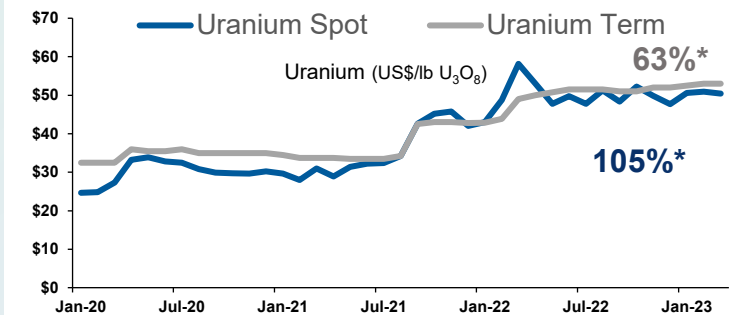
### Medium-Term

- Clean, secure energy focus, reactor life-extensions

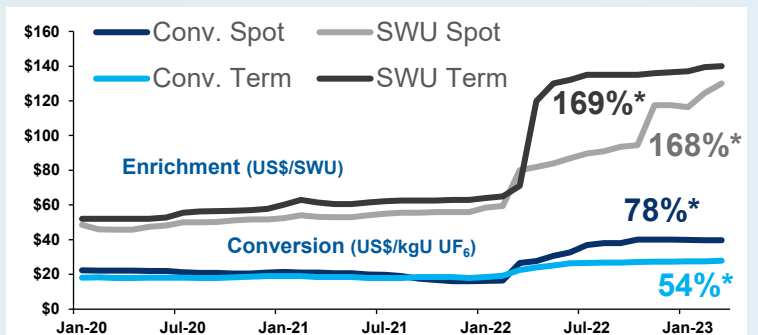
### Long-Term

- Reactor new builds and development of small modular and micro reactors

## Price Increases Across the Fuel Cycle<sup>1</sup>



Source: <sup>1</sup>Average of monthly prices reported by TradeTech and UxC



\*Increase since January 2020

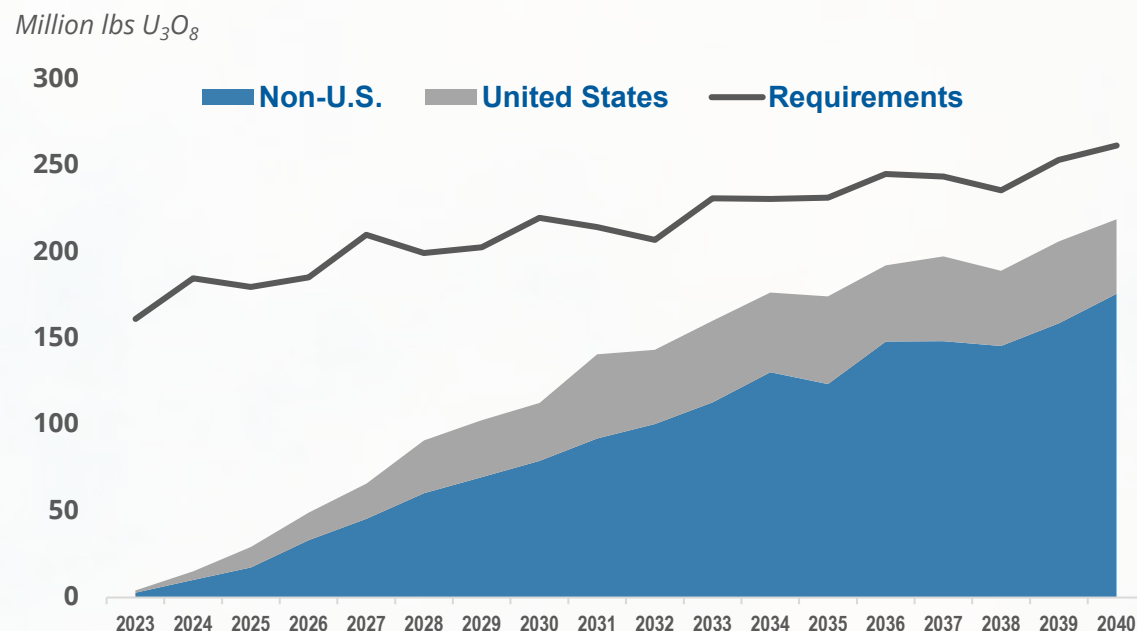


# Market Fundamentals

Driving contracting interest, but not yet replacement rate

## Utility Uncovered Uranium Requirements

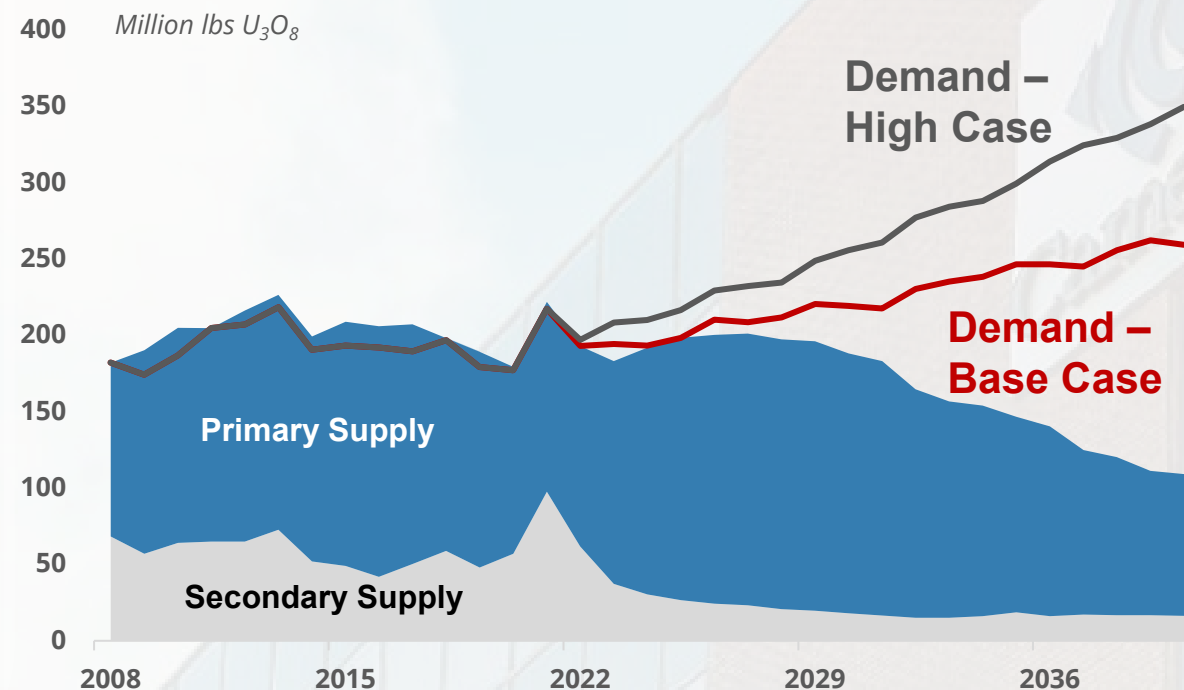
~ 2.2 Billion pounds through 2040



Source: UxC Q1 2023 Uranium Market Outlook

## Supply Outlook is Uncertain

Structural Primary & Secondary Supply Gap



Source: UxC Q1 2023 Uranium Market Outlook

# Cameco Remains Well-Positioned

Growing demand, uncertain supply



## Growing Demand Driven By

### Global focus on:

- Energy security
- Electrification
- Decarbonization
- Country net-zero targets
- Company net-zero targets
- Infrastructure investments



## Uncertain Supply

- Geopolitical / trade policy risk
- Planned supply curtailments
- Unplanned supply disruptions
- Underinvestment in existing capacity
- Underinvestment in new capacity
- Decreasing secondary supply



## Cameco is Well-Positioned

### Strategy captures full-cycle value

- Long-term contract portfolio
- Operational flexibility
- Tier-one expansion capacity
- Idled tier-two capacity
- Project pipeline – brownfield
- More than mining – invested across the fuel cycle
- Risk managed financial discipline

# Trusted as a Reliable Supplier

New contracting cycle is highlighting security of supply

## Security



A world leader in low-cost uranium production with a diversified portfolio and extensive reserves and resources

## Flexibility



Best global exploration and advanced project pipeline prepared for growing demand

## Diversification



Operations and investments spanning the nuclear fuel cycle, from exploration to CANDU fuel manufacturing

## Experience



Global leaders in exploration and mining, environmental protection, worker health and safety, with decades of experience across the Fuel Cycle

## Sustainability



Committed to long-term sustainability, clean environment and a safe, healthy and rewarding workplace

Long-term contracts for

**>215 million lbs U**

**>70,000 tonnes UF<sub>6</sub>**

Commitments span

more than a **decade**

Average sales of

**26 million lbs/yr**

for next **5 years**



# Full-Cycle Value Capture

## Operating and Invested Across the Nuclear Fuel Cycle



### Tier One Uranium Assets

**Cigar Lake** (54.5%<sup>1</sup>)  
Saskatchewan, Canada

**Uranium Grades  
High-Grade Uranium Mine**

Licensed Capacity (100%):  
**18 M lbs/yr**

**McArthur River** (69.8%) /  
**Key Lake** (83.3%)  
Saskatchewan, Canada

**The World's Largest,  
High-Grade Uranium Mine/Mill**

Licensed Capacity (100%):  
**25 M lbs/yr**

**Inkai** (40%)  
Kazakhstan

**A Significant Low-Cost  
Source of Uranium**

Licensed Capacity (100%):  
**10.4 M lbs/yr**



### Tier Two Uranium Assets and Advanced Projects

**Rabbit Lake**  
(100%)  
Saskatchewan



**US ISR Operations**  
(100%)  
Nebraska & Wyoming



**Millennium**  
(69.9%)  
Saskatchewan



**Yeelirrie**  
(100%)  
Western Australia



**Kintyre**  
(100%)  
Western Australia

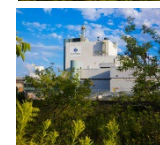


### Fuel Services



**Blind River Refinery**  
(100%) Ontario

**World's Largest  
Commercial Uranium  
Refinery**



**Port Hope  
Conversion Facility**  
(100%) Ontario

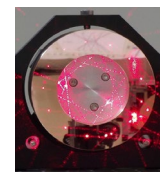
**Canada's Only Uranium  
Conversion Facility**



**Cameco Fuel Manufacturing**  
(100%) Ontario

**Manufactures Fuel  
Bundles and Reactor  
Components for CANDU  
Heavy Water Reactors**

### Other Nuclear Fuel Cycle Investments



**Global Laser  
Enrichment (GLE)**  
(49%)

**Developing and Testing  
Third-Generation  
Laser Enrichment  
Technology**



**Westinghouse**  
(49%)\*

**Provider of mission-  
critical and specialized  
technologies, products  
and services across the  
nuclear power sector**

<sup>1</sup> Reflects increase in ownership to 54.5% effective May 19, 2022.

\*Proposed joint acquisition



# Cameco Production Plans

Supply discipline driven by contracting success



Marketing



Operations

Strategy  
Execution



Financial



## McArthur River/Key Lake

M lb (our share)	2023	2024	Licensed capacity
McArthur River/Key Lake	10.5 15 @ 100%	12.6 18 @ 100%	17.5 25 @ 100%
Cigar Lake	9.8 18 @ 100%	9.8 18 @ 100%	9.8 18 @ 100%
Inkai (JV Inkai purchase)	4.2 10.4 @ 100%		5.0 12.6 @ 100% (+20% subsoil)
Fuel Services - conversion		12,000 t	12,500 t



## Cigar Lake



## Inkai (JV Inkai purchase)



## Fuel Services - conversion

**32 M lb**

(our share of  
tier-one licensed  
capacity)

~56 M lb @ 100%

# Cameco Preparing For the Future



- Worked on reducing costs, improving our operational flexibility and strengthening safety performance

- Focused on digital transformation, continuous improvement initiatives and other critical projects across the company



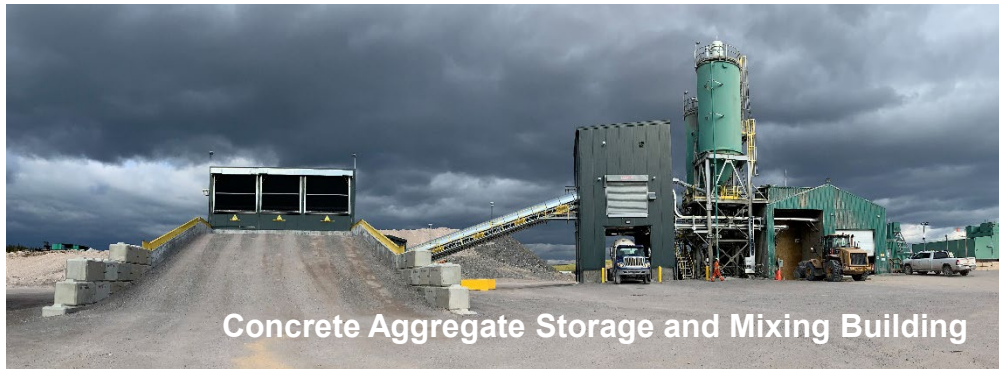


# Automation Systems

## McArthur River Mine Concrete Batch Plant



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# Automation Systems

## Key Lake Mill Automation and Calcine Packaging



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# Westinghouse Acquisition

Subject to final closing



Plant Operating Services				Environmental Services	Energy Systems
Outage Services	Engineered Systems	Parts	Nuclear Fuel	Decommissioning and Decontamination	New Power Plant Projects

- Committed to acquire a 49% interest in Westinghouse
  - Brookfield Renewables will hold a 51% interest
- Westinghouse – strategic proven assets, licensed and permitted, located in geopolitically attractive jurisdictions

# ESG at Cameco

- Committed to operating sustainably for over 30 years
- Engagement is key to our strategy
- One of Canada's largest employers of Indigenous people - about 50% of northern Sask. workforce are RSNs, First Nations/Métis
- Local residents help maintain safe operations, protect the environment and establish strong, healthy community and business relationships
- Not just good for business, but the right thing to do

# Energizing a Clean-Air World

- ✓ World needs clean, safe and reliable fuel more than ever
- ✓ Must meet global demand for energy security climate change, electrification and net zero goals
- ✓ Opportunity for nuclear to take centre stage and make a substantial impact for humanity
- ✓ Must work together as an industry to ensure success





# Cameco

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**Thank you!**



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# Q&A

