

Energizing a clean-air world

An Overview of the Nuclear Energy Industry: Opportunities & Challenges

Saskatchewan Suppliers Energy Forum

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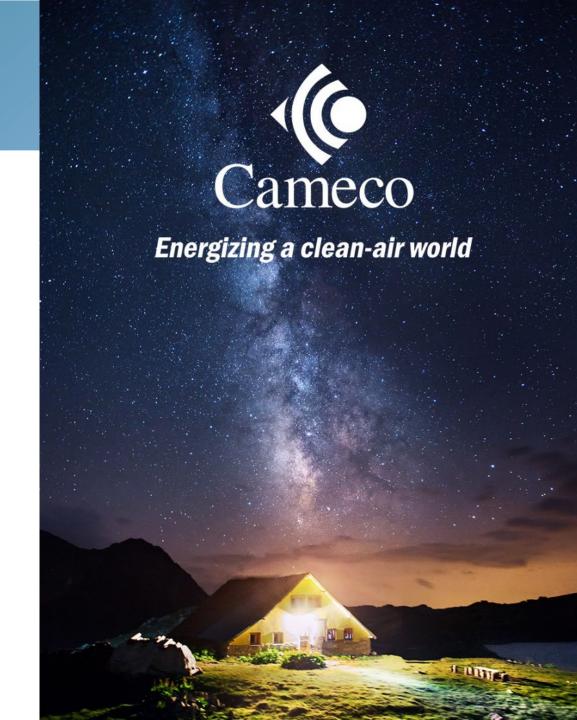
October 4, 2023

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Introduction

- Nuclear Energy Tailwinds
- Uranium market fundamentals 'best ever'
- Cameco's state of operational readiness in uranium and conversion
- Working together towards a brighter and cleaner future
- Opportunities for Saskatchewan Suppliers



Nuclear Growth Potential



Clean Energy Transition

Triple Challenge of Net-Zero Carbon Targets

- Energy Poverty
 - Lift 1/3 of the global population out of energy poverty
- Thermal Replacement
 - Replace 85% of grid running on carbon-emitting thermal power with a clean, reliable alternative
- Electrifying Industry
 - Electrify industries, such as private and commercial transportation, largely powered by carbon-emitting thermal energy today

Nuclear Growth Potential

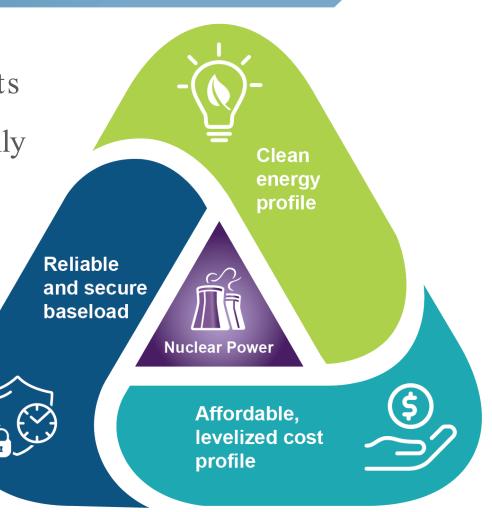
Clean Energy Transition



• Growing focus on Net-zero Carbon Targets

• Increasing Public & Policy Support Globally

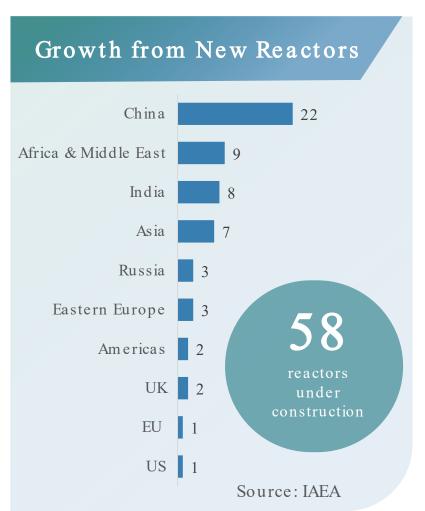
- Transportation
 - Electrification & Decarbonization
- Nuclear for Process Heat
- Small Modular Reactors
 - Scalable next generation solutions

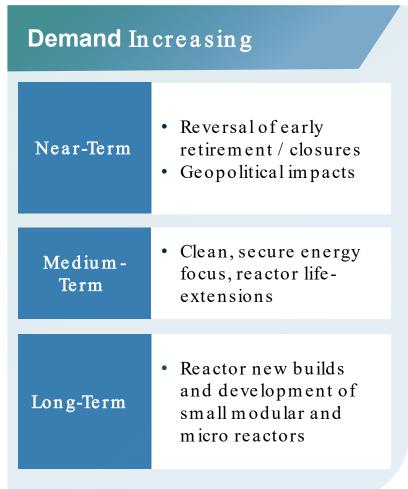


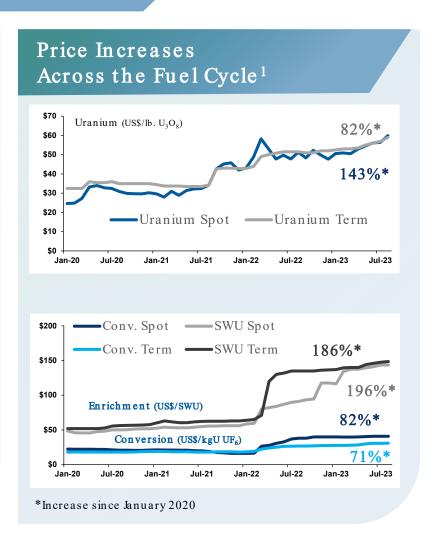
Nuclear Growth Potential

Energy Security Driven by Geopolitical Risk





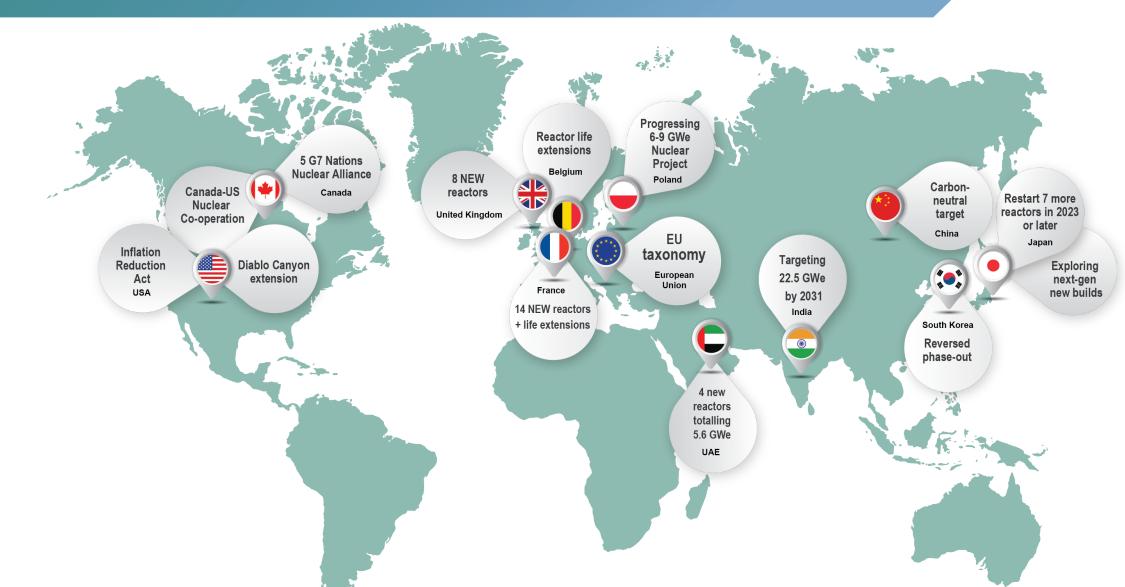




Full-Cycle Demand

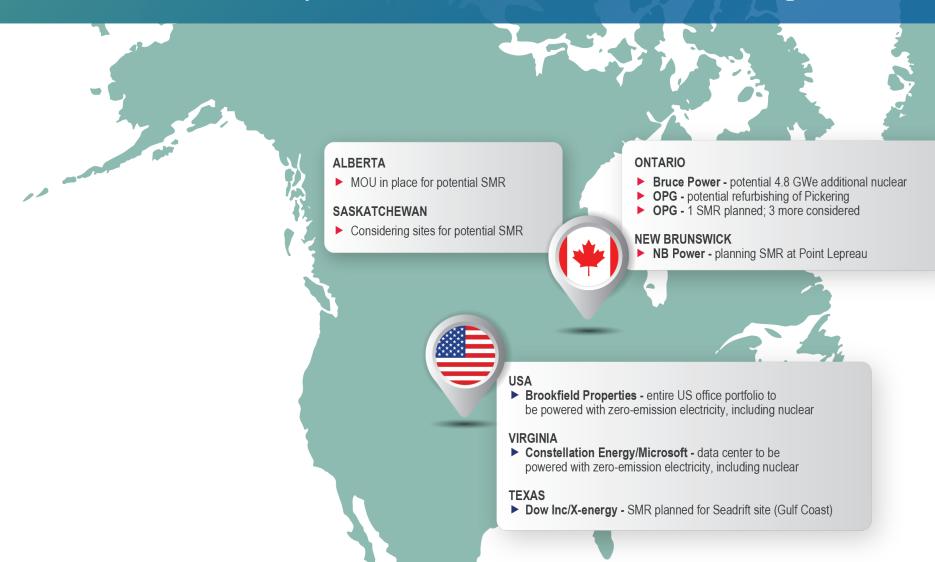
"Best Ever Fundamentals"





North American Announcements

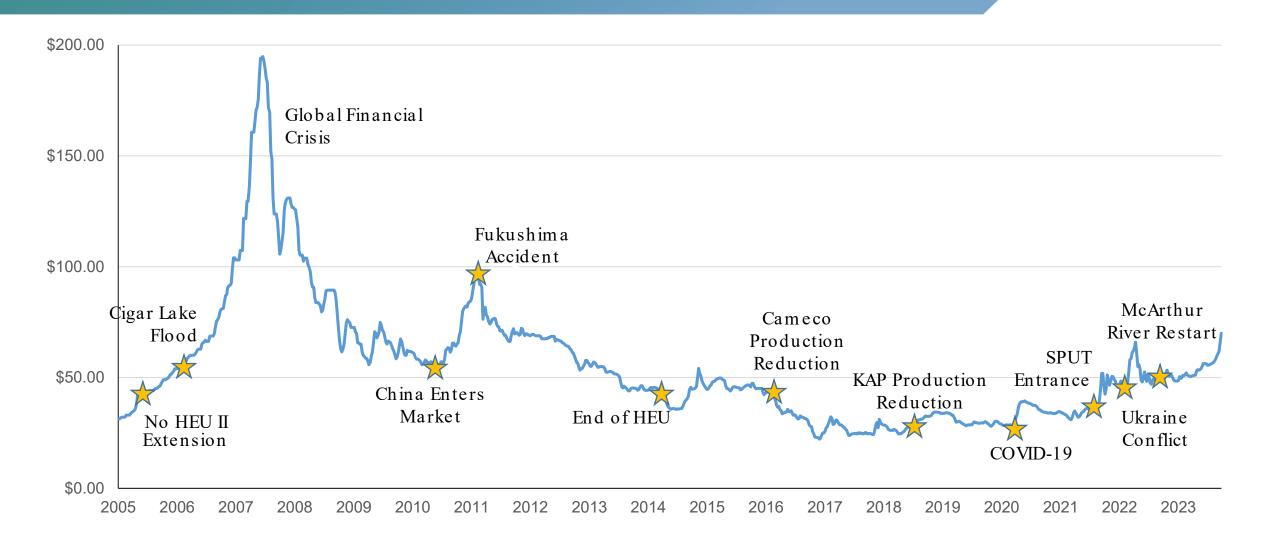
Nuclear Growth in Sync with Positive Global Landscape



Market History & Potential c

Transitioning from Maintenance to Growth

Energizing a Clean-Air World

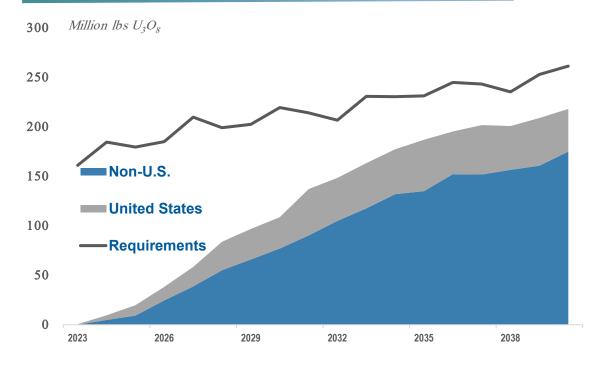


Market Fundamentals

Driving Contracting Interest & Need for Future Production

Utility Uncovered Uranium Requirements

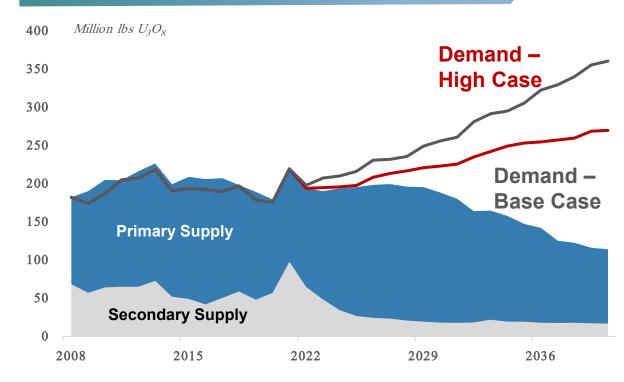
~ 2.3 Billion pounds through 2040



Source: UxC Q3 2023 Uranium Market Outlook

Supply Outlook is Uncertain

Structural Primary & Secondary Supply Gap



Source: UxC Q3 2023 Uranium Market Outlook

Cameco's Actions in a Transitioning Market







Contract Portfolio increased to:

- ✓ 215 M lbs uranium
- ✓ 70 M kgU conversion services







Transitioning to tier-one run rate

- ✓ Cigar Lake 16 m lbs (100% basis) in 2023 \rightarrow plan for 18 m lbs in 2024
- ✓ McArthur River/Key Lake 14 m lbs (100% basis) → plan for 18 m lbs in 2024
- ✓ Record UF₆ production







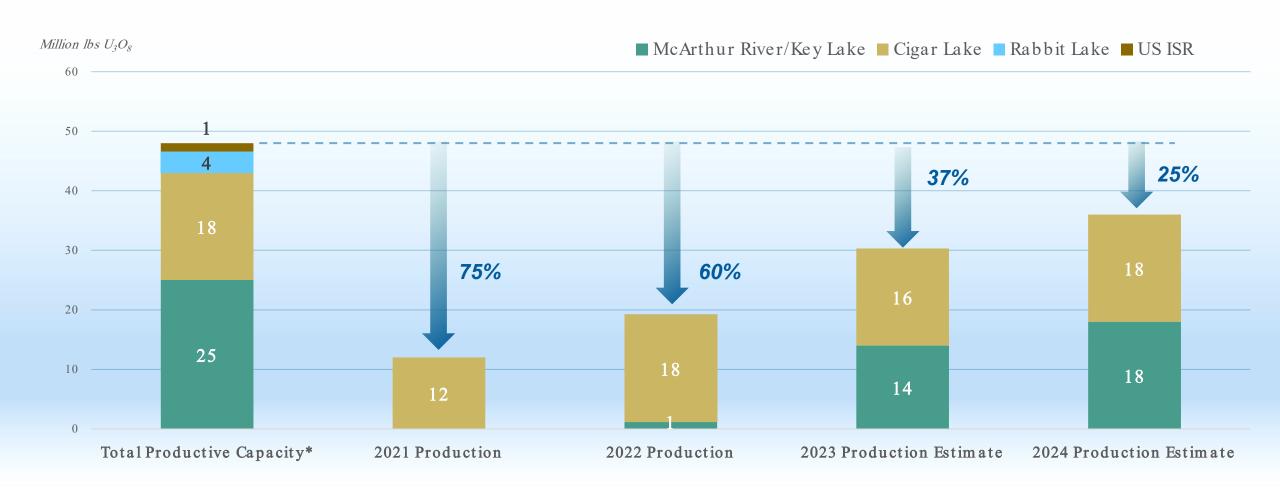
Investments in the nuclear fuel cycle

- ✓ Increased ownership of Cigar Lake, tier-one high-grade mine
- ✓ Advancing next generation enrichment technology
- ✓ Proposed joint acquisition of Westinghouse with Brookfield Renewable

Cameco's Response

Transition from Supply Discipline to Restart & Expansion

Annual Capacity vs. Production (100% basis)



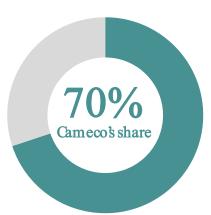
McArthur River Restart

Contracting First, then Production



Recent Developments

- Care and maintenance from July 2018 to November 2022
 - Removed 18 million lbs from the market annually (100% basis)
- Digital Transformation ongoing to build the mine of the future
- 2023 production reduction from 15 to 14 million lbs (100% basis)
 - 9.8 million lbs (Cameco's share)
- 2024 production plan of 18 million lbs (100% basis)
 - 12.6 million lbs (Cameco's share)

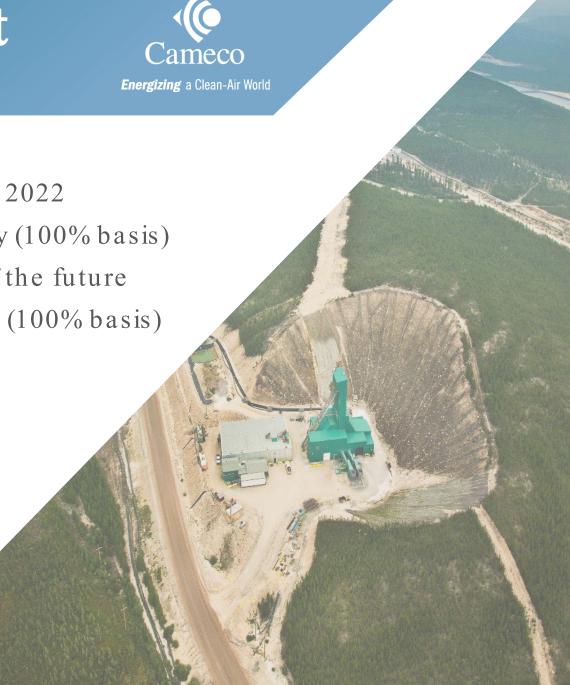


0.8 million lbs

2022 Production (Cameco share)

275 million lbs

Proven & Probable Reserves (Cameco share)



Cigar Lake

Uranium Grade 100x the World Average



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Recent Developments

• 2023 production reduction from 18 to 16.3 million lbs (100% basis)

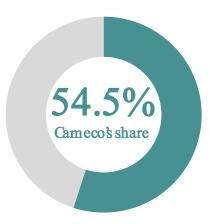
- 8.9 million lbs (Cameco's share)

• 2024 production plan of 18 million lbs (100% basis)

- 9.8 million lbs (Cameco's share)

• Acquired 4.522% of Idemitsu's 7.875% participating interest

• 2023 Plans include continued mine development (freezing, construction, etc.) in support of future construction



9.6 million lbs

2022 Production (Cameco Share)

84.4 million lbs

Proven & Probable Reserves (Cameco Share)

17.21% Average grade U₃O₈



Curtailed & Potential Cameco Production



Rabbit Lake | +|

Mine Type: Underground

Status: Suspended

Location: Saskatchewan, Canada

Average Grade: 0.80%

Reserves & Resources: 72.3M lbs



Crow Butte & Smith Ranch-Highland

Mine Type: In Situ Recovery

Status: Suspended

Location: Nebraska & Wyoming, USA

Average Grade: 0.26% - 0.07% Reserves & Resources: 58.2M lbs * Includes North Butte-Brown Ranch



Millennium | +

Mine Type: Underground

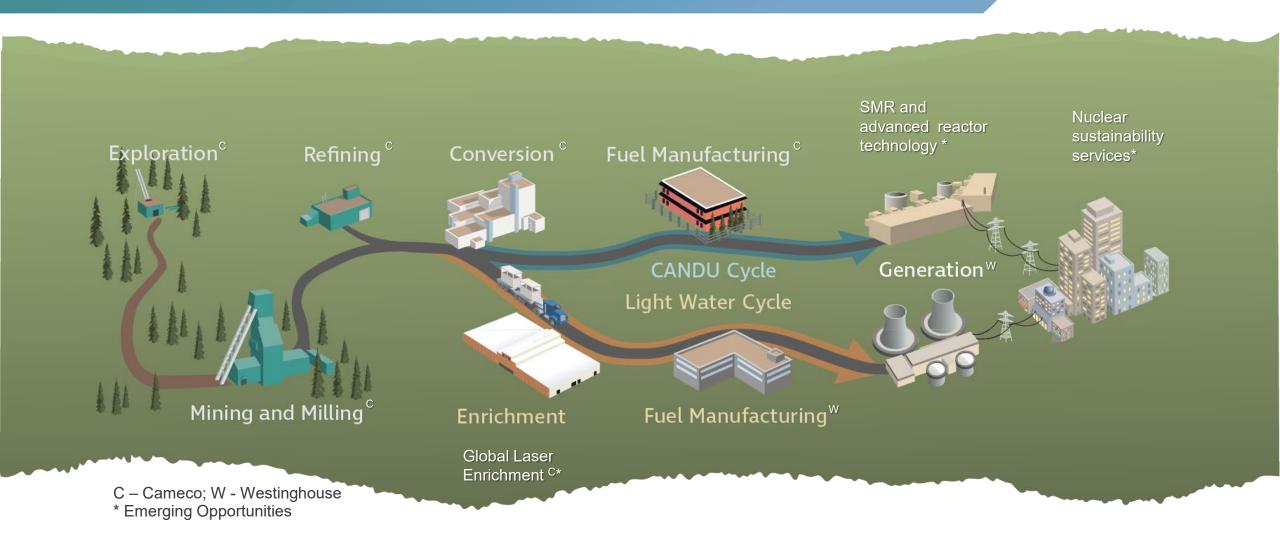
Status: Awaiting Development Decision

Location: Saskatchewan, Canada

Average Grade: 2.61% Resources: 73.2M lbs

Expanding Cameco's Role

Vertical Integration within the Nuclear Fuel Chain

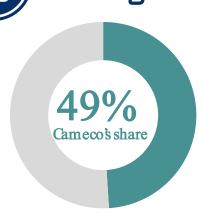


Expanding Cameco's Role

Vertical Integration within the Nuclear Fuel Chain

- Cameco has committed to acquire a 49% interest in Westinghouse Electric
 - Subject to final closing
 - Brookfield Renewables will retain operational control with a 51% interest
- Westinghouse Electric is valued at \$7.875 billion
- Cameco financing mix of cash, debt & equity



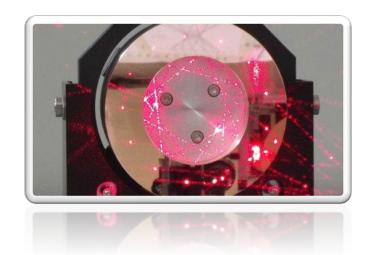


Plant Operating Services				Environmental Services	Energy Systems
Outage Services	Engineered Systems	Parts	Nuclear Fuel	Decommissioning and Decontamination	New Power Plant Projects

Global Laser Enrichment

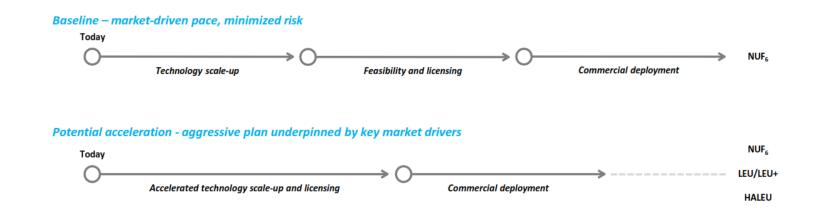
Vertical Integration within the Nuclear Fuel Chain





Three advantages to offer the nuclear industry over the long-term:

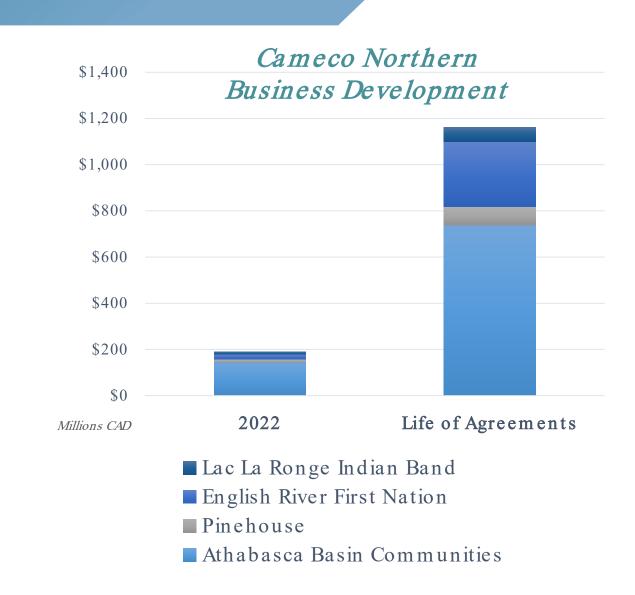
- 1. Re-enrichment of depleted uranium tails from previous generation enrichment technologies
- 2. HALEU/LEU+ for SMRs and advanced reactor designs
- 3. LEU for the world's existing and future light-water reactor fleet with greater efficiency and flexibility than current enrichment technologies



Saskatchewan's Opportunity

Cameco's Role in Saskatchewan

- 50% of Cameco's employees in Northern SK are Indigenous
- Step Up for Mental Health has raised over \$2.3 million
- \$1 million COVID-19 Relief Fund
- \$50,000 in scholarships for Northern students in 2023
- Employee Giving campaign with \$276,284 in donations
- \$4.22 billion spent with northern businesses, including \$1.1 billion related to key collaboration agreements



Looking Forward Targets

Commitments to Saskatchewan











- Net-Zero Ambition and 30 by 30 Target
- Decarbonization Pathways
- Scope 3
- Climate-Related Physical Risks
- Environmental Performance
- Tailings Management
- Workplace Safety
- Indigenous and Community Relations
- Inclusion and Diversity
- Board Diversity
- Conduct and Ethics
- Cybersecurity

Positive Nuclear Energy Tailwinds

Cameco Well Positioned as Nuclear Energy Leader

• Growing demand for nuclear as green energy source

- Cameco & Saskatchewan are uniquely situated to address

• Strong projected demand growth, further supplemented from market realignment

• Market transitioning with need for additional supply

• We believe our strategy of contracting discipline, operationally flexible supply discipline, and financial discipline will allow us to achieve our vision of Energizing a clean-air world



Energizing a clean-air world



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