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Nuclear in the New Industrial Revolution

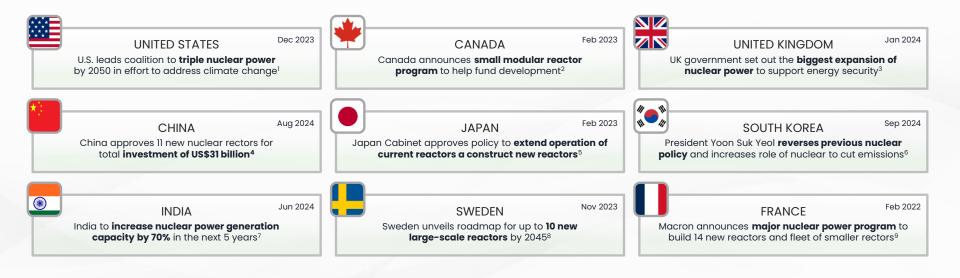


Nuclear in the New Industrial Revolution

Nuclear energy is being embraced internationally as the cornerstone of a carbon-free energy future

Climate Change & Decarbonization Goals

Increasing Importance of Energy Security Positive Shift in Public Perception



¹U.S. leads coalition to triple nuclear power by 2050 in effort to address climate change; CNBC ² Canada Launches New Small Modular Reactor Funding Program; Government of Canda ³ Biggest expansion of nuclear power for 70 years to create jobs, reduce bills and strengthen Britain's energy security; Govuk

⁴China Makes \$31 Billion Nuclear Push With Record Approvals; BNN ⁵ Cabinet approves change in Japanese nuclear policy; WNN ⁶In New Nuclear Push, South Korea Revives Plans to Build Two Reactors Time Magazine ⁷ June 25, 2024 Press Release; Department of Atomic Energy ⁸ Sweden plans 'massive' expansion of nuclear energy; WNN ⁹ France Announces Major Nuclear Power Buildup; New York Times



New Paradigm for Nuclear Energy

Nuclear Power Investment

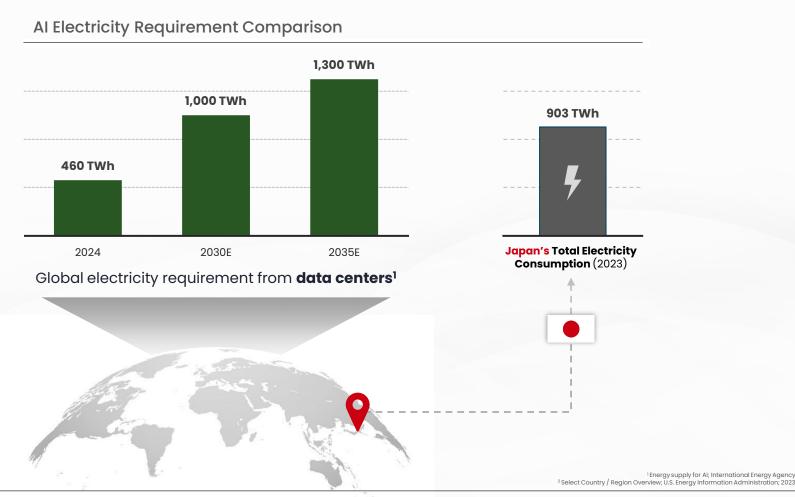
Surging capital inflows signal strong conviction in the future of nuclear power and further need to strengthen supply





The Al Electricity Demand Shock

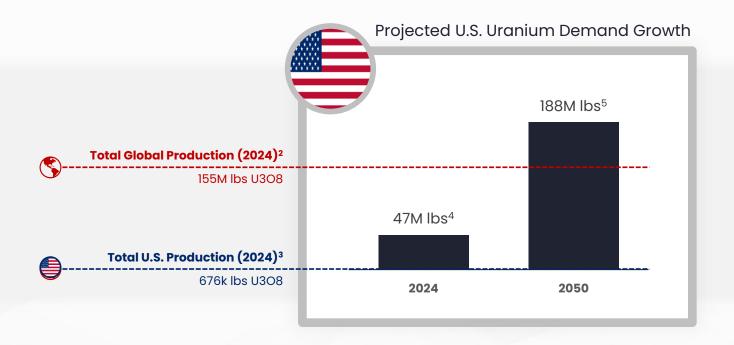
Artificial intelligence is a major shock to global electricity demand





The U.S. Needs Uranium

The White House has established policy aimed to **quadruple nuclear** capacity by 2050, driven by extensions, expansions, and SMRs¹



The U.S. needs to source nearly 141M lbs of additional annual supply by 2050

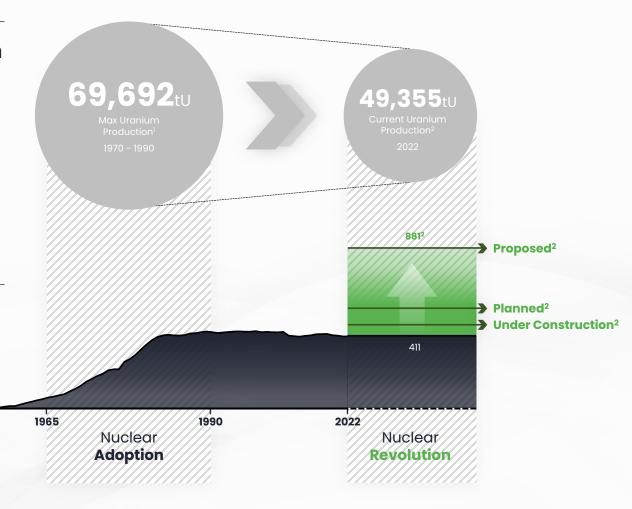


A Multigenerational Inflection Point

Global uranium production levels remain below the amount produced during initial **nuclear adoption**

The current **nuclear revolution** suggests a
pressing need to expand
uranium supply

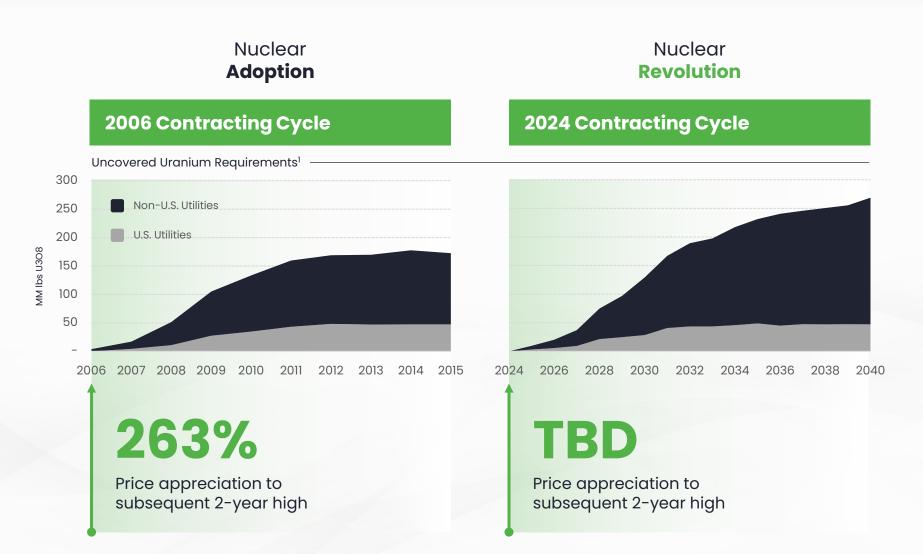
Nuclear Reactors by Year (1954 – 2022)³



¹Forty Years of Uranium Resources, Production and Demand in Perspective; The Red Book Retrospective; Nuclear Energy Agency ²World Nuclear Association; Proposed, Planned, and Under Construction added to 41 Current reactors ³Nuclear Power Reactors in the World; IAEA



Upcoming Contracting Cycle



¹The Uranium Market Outlook, Executive Summary; UxC

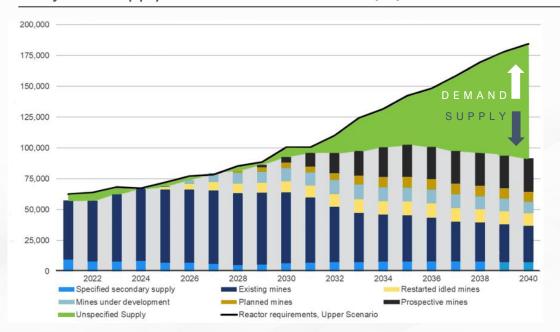


Supply & Demand Profile

Growing supply deficit calls for 5 new Rook I sized projects to be found, permitted, financed, and constructed over the next 20 years

Current mine supply has never been more fragile

Projected Supply and Demand of Uranium (tU)1



Demand for uranium is expected to rise by

127% by 2030

and

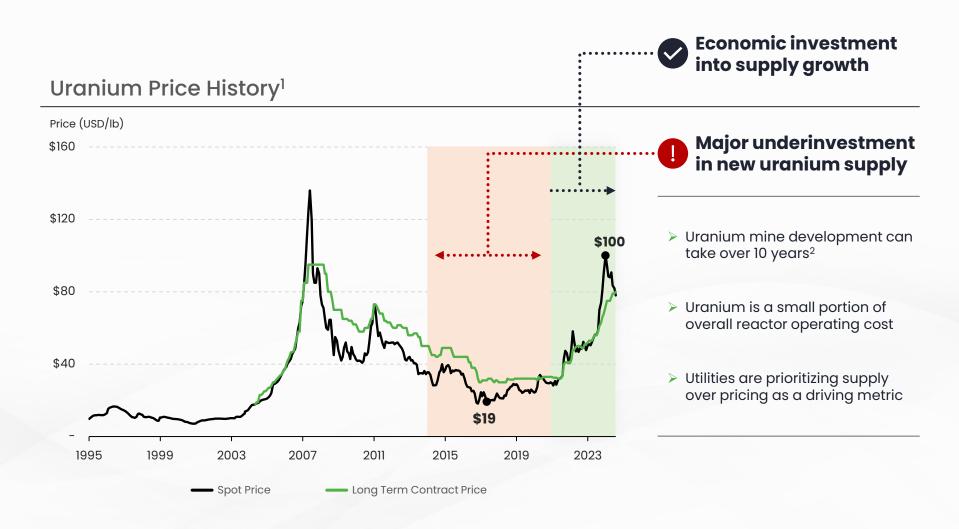
200% by 2040

Creating a ~240M lbs deficit in 2040 that will continue to widen¹

¹ The World Nuclear Fuel Report ² OECD Uranium 2022, Resources, Production, Demand



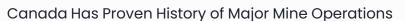
Uranium Price Environment

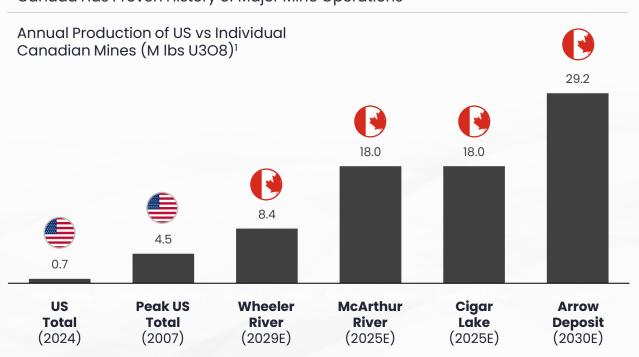




Canada: A Proven Uranium Jurisdiction

Canada is the clear solution to pursue North America's next nuclear fuel source

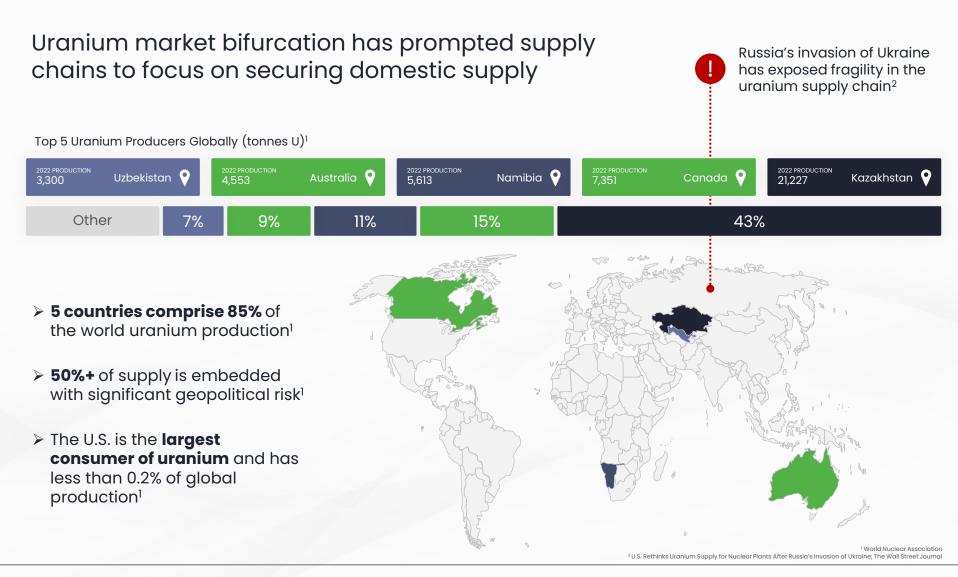




¹Public company repor



Production Overview By Country





Production Overview By Producer

The **top 3 global producers** account for nearly half of global production and are facing production challenges



¹World Nuclear Association; Uranium production by company 2022 ²Kazatomprom 4Q23 Operations and Trading Update; February I, 2024 ³Kazatomprom 1H24 Financial Results and 2025 Production Plan Update; August 23, 2024

⁴ Cameco Annual Report 2023 ⁵ Cameco Production and Market Update; September 5, 2023 ⁶Le Monde; Niger's junta evicts French multinational Orano from one of its largest uranium deposits; June 22, 2024 ⁷Kazatomprom corporate release; July 10, 2024



Growing International Supply Competition

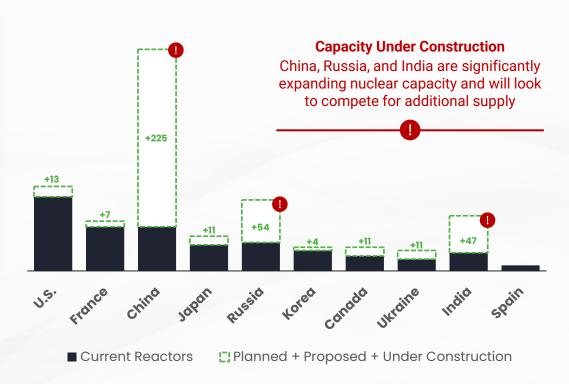
The U.S. relies heavily on international markets for uranium supply but securing supply may become increasingly difficult

Nuclear Reactors by Country¹

Nuclear capacity by country (Reactors)

The **U.S.** Is the largest global uranium consumer but accounts for less than 0.2% of global uranium production²

Susceptible to supply shocks



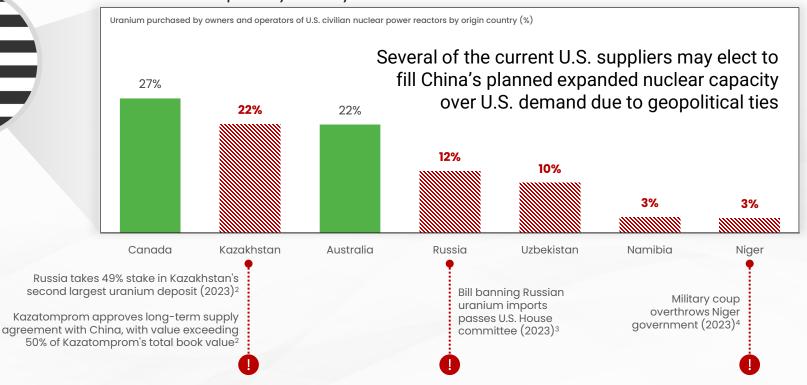
¹International Atomic Energy Agency, Power Reactor Information System



U.S. Supply Dynamics

Over 50% of U.S. supply is sourced from countries with significant geopolitical and supply chain risks

U.S. Uranium Imports by Country¹



¹U.S. Energy Information Administration; Uranium Marketing Annual Report; 2023 data ² Uranium: Kazatomprom's Major Deals With CNNC and Rosatom; Energy Intelligence; 2023

³ Bill banning uranium imports from Russia passes US House subcommittee; Reuters ⁴ Niger arrests politicians after coup, other juntas voice support; Reuters

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The Future is Nuclear

Energy of the future will be clean, scalable, baseload capable, and secure



Emission-Free

As the lowest CO₂ energy option, nuclear is the best choice for governments looking to achieve their stated climate objectives.¹



Mass Scale

Uranium's unmatched energy density allows nuclear energy production to provide primary energy production with minimal footprint.²



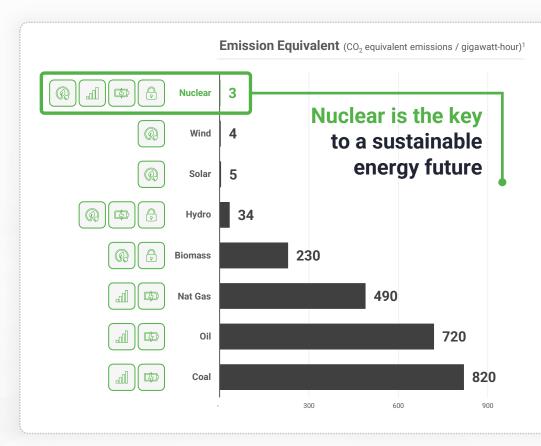
Baseload Capacity

Nuclear is the only clean energy source capable of providing reliable baseload electricity to supplement intermittency of renewables.²



Stable Supply

Uranium accounts for a minor proportion of total generating costs, insulating countries from major price swings or supply disruptions.³



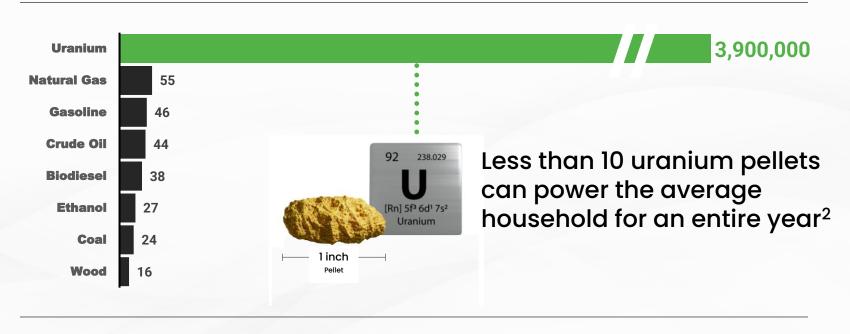
¹Our World in Data; U.S. Department of Energy ²The Nuclear Fuel Report; 2021 ³World Nuclear Association



Uranium's Energy Density

Uranium's unique energy density enables nuclear power to generate vast amounts of electricity with relatively small quantities of fuel, reducing the logistical and environmental burden compared to fossil fuels

Energy Density by Fuel Source (MJ/kg)1



¹ L Hore-Lacy, "Future Energy Demand and Supply," in Nuclear Energy in the 21st Century, 2nd ed., London, UK: WNUP, 2011, ch.1, sec.6, pp.9

² Mining.com; The power of a uranium pellet

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Additional Resources

U.S. Department of Energy

• Restoring America's Competitive Nuclear Energy Advantage

International Atomic Energy Agency

Energy, Electricity and Nuclear Power Estimates for the Period up to 2050

U.S. Energy Information Administration

2023 Uranium Marketing Annual Report



Fundamental Supply Factors

Supply Deficits

- Underinvestment in exploration and mine development during 2014-2020¹
- Strategic reserve and mine depletion
- Secondary supply drawn down
- Bottlenecks in fuel services
- Idled mines face challenged restarts

Geopolitical Risk

- Geopolitical Risk
- Prohibiting Russian Uranium Imports Act
- Nationalization
- Unprecedented conflict
- Highly concentrated supply chains
- Trade and logistic challenges
- Bifurcating markets

Supply Landscape

- > Supply Landscape
- > U3O8 supply ~130M lbs./yr1
- Structural primary deficit ~60M lbs./yr²
- Mobility of supply issues
- Producers contracted for 5+ years, limiting access
- Uranium supply will need to triple by 2050³ to meet the growing demand

¹2023. Q2 Goehring and Rozencwajg Market Commentary / World Nuclear Association / TradeTech / UxC ² WNA - World Nuclear Fuel Report 2023 - Upper Case scenario ³ OFCD Uranjum 2022. Resources, Production, Demand



Fundamental Demand Factors

Demand Shocks

- Extensions / Refurbishments
- Closure U-turns
- > Capacity Increases
- Physical Trusts
- Small Modular Reactors
- Procurement of uranium, LEU and HALEU for strategic reserves

Government Policies

- COP28 triple nuclear capacity pledge by 2050
- EU Net Zero Industry Act & Great British Nuclear
- ADVANCE Act
- Japanese Green Transformation
- > China 5-year Plan

Industry Growth

- > U3O8 Demand ~190M lbs./yr1
- ~60 reactors are under construction, an additional 110 planned²
- Doubling of nuclear capacity expected by 2050³
- Conversion of coal facilities to nuclear
- Al development & Electrification

¹2023. Q2 Goehring and Rozencwajg Market Commentary / World Nuclear Association / TradeTech / UxC ²WNA - World Nuclear Fuel Report 2023 - Upper Case scenario ³OECD Uranium 2022, Resources, Production, Demand