



# Sprott Uranium Miners ETFs

NYSE Arca: URNM / Nasdaq: URNJ



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Investor Presentation

September 30, 2024

V8\_11.15.2024

**Sprott**

# A Global Leader in Precious Metals and Critical Materials Investments



US\$33.4B in AUM<sup>1</sup>

Spratt (SII) is publicly listed on the NYSE and TSX

Exchange Listed Products	Managed Equities	Private Strategies
<b>\$27.8 Billion AUM</b>	<b>\$3.3 Billion AUM</b>	<b>\$2.4 Billion AUM</b>
<ul style="list-style-type: none"><li>Physical Bullion Trusts (NYSE Arca &amp; TSX Listed)</li><li>Physical Uranium Trust (TSX Listed)</li><li>Physical Copper Trust (TSX Listed)</li><li>Spratt Critical Materials ETFs (Nasdaq or NYSE Arca Listed)</li><li>Gold Mining Equity ETFs (NYSE Arca Listed)</li></ul>	<ul style="list-style-type: none"><li>Flagship U.S. Gold Equity Mutual Fund</li><li>Closed-End Value Fund (Nasdaq)</li><li>Spratt Critical Materials Strategy</li><li>Spratt Concentrated M&amp;A Strategy</li></ul>	<ul style="list-style-type: none"><li>Bespoke credit investments to mining and resource companies</li></ul>

<sup>1</sup>Spratt AUM as of September 30, 2024.

# Presentation Outline

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# Why Invest in Uranium Miners Now

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## 1. Strong Industry Fundamentals are Helping to Recapitalize the Sector

- Producers: Rising uranium price is incentivizing miners to restart idle mines
- Developers: Renewed investor interest in the sector is helping to advance development
- Explorers: Are incentivized to resume drilling and exploration to identify new uranium deposits
- We believe uranium miners are under-represented across the energy equity sector, posing strong upside potential

## 2. Uranium and Nuclear Energy May Be Critical to Achieving Energy Security

- Nuclear fuel supply security is vital, as national grids depend on stable nuclear power
- Increased focus on decarbonization and energy security has shifted nuclear energy policies and government support where at COP28, 22 countries pledge to triple global nuclear capacity by 2050
- The Russia-Ukraine war (started in February 2022) has created an urgent energy crisis
- Geopolitical implications are constraining supply with the coup in Niger, the Prohibiting Russian Uranium Imports Act (the Act) passage, and potential Russian retaliation
- The G7 has pledged to end reliance on Russian uranium and fuel services. As bottlenecks in conversion and enrichment are worked through, an industry shift to overfeeding may increase near-term demand for uranium

## 3. New Uranium Bull Market is Underway, Incentivizing Miners and Investors

- Unprecedented number of nuclear plant restarts, extensions and new builds is increasing demand for uranium
- Early stages of the contracting cycle: Term contracting YTD stands at 90 million pounds of U<sub>3</sub>O<sub>8</sub>e (UxC as of 11/04/2024). A level for which is well below replacement rate contracting. Utilities are focused on the waiver process from the recently passed Act and price action may cascade down the fuel supply chain
- Nuclear energy stands out with bipartisan government support and Big Tech turning to it to support AI ambitions
- Mine supply remains well short of world reactor requirements (a supply-demand deficit)
- Despite increases in the incentive price, Kazatomprom will not meet previously increased production targets for 2025.
- Uranium demand isn't price sensitive, as fuel costs minimally impact nuclear plant profitability
- We firmly believe the era of destocking is over, and utilities are likely to buy more uranium for supply security
- Existing uranium supply may fall short of future needs, inviting non-utility buyers into the market; secondary uranium supplies have diminished in recent years

# Sprott's Outlook on Uranium & Uranium Miners\*

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## 1. Macro

- We believe rising demand and geopolitical instability are supportive of higher uranium prices in 2024 & 2025
- Invasion of Ukraine and military coup in Niger have disrupted the nuclear fuel supply chain with Russia producing 5% of uranium, providing 27% of conversion and 39% of enrichment capacity globally and Niger producing 2%<sup>1</sup>
- EU inclusion of nuclear energy into its Sustainable Finance Taxonomy
- Countries such as Japan, Belgium and South Korea announce U-turns on the nuclear power policies in response to growing concerns about energy shortages and soaring prices
- The United States continues to announce financial support and incentives for its nuclear energy sector
- Major nations have set aggressive decarbonization targets with policies increasingly backing nuclear energy, especially with volatile oil, coal & natural gas prices exerting political pressure on energy policy

## 2. Physical Uranium Market

- Structural supply deficit remains in place despite surging uranium price over recent years
- Growing production/demand imbalances and future utility contracting may provide further price support
- Uranium prices peaked in 2007 at \$139/lb; the new uranium bull market has driven prices to \$81.95/lb<sup>2</sup>
- Nuclear energy may be poised to take market share within the energy sector as it only generates ~9% of the world's electricity but more than 23% of low-carbon emissions electricity<sup>3</sup>
- The rising price has economically incentivized some uranium miners to ramp exploration and production
- 67 new nuclear plants are under construction and 87 are planned worldwide with current uranium production failing to meet demands<sup>4</sup>
- We believe Western reshoring, with the recent restart of U.S. conversion facility ConverDyn and Urenco expanding U.S. enrichment capacity, may eliminate an industry bottleneck and cause an industry shift to overfeeding, increasing demand

\*Opinion subject change.

<sup>1</sup> Production of U3O8 from World Nuclear Association. Conversion and enrichment figures from Cameco Corp

<sup>2</sup> TradeTech LLC for 2007. Current price is measured by a proprietary composite of U3O8 spot prices from UxC, S&P Platts and Numerco as of 3/31/2024.

<sup>3</sup> Ember for year 2023.

<sup>4</sup> World Nuclear Association as of 10/30/2024.

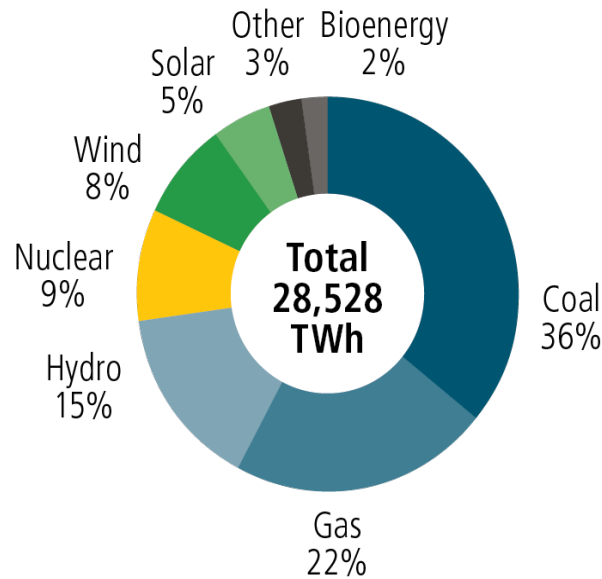
# Uranium Miners May Be Poised to Take Market Share Within the Energy Sector

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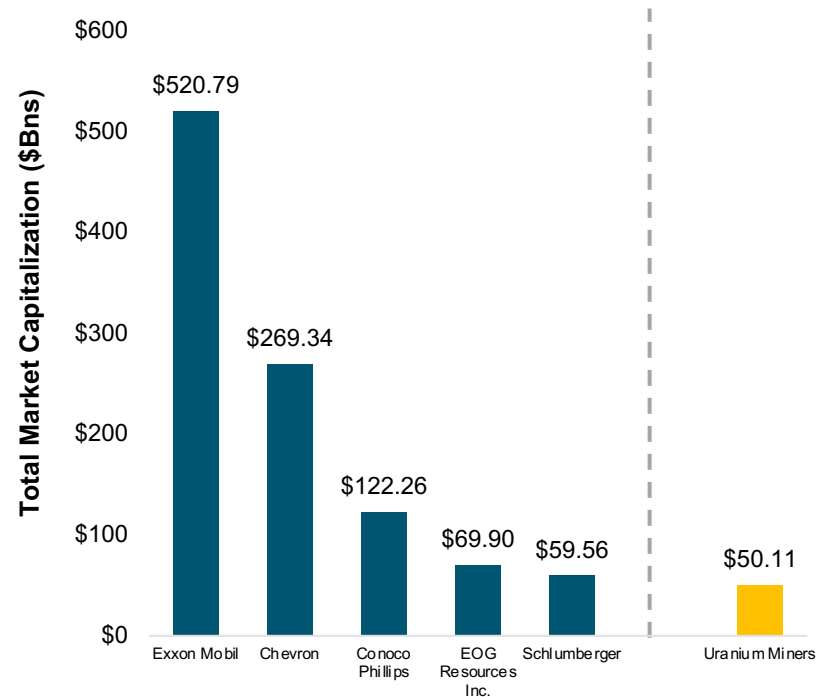
# Uranium Miners May Be Poised to Take Market Share

- Nuclear energy generates **9% of the world's electricity** and **23% of low carbon emissions electricity**<sup>1</sup>
- Uranium miners are miniscule in market capitalization compared to the largest energy companies, namely oil & gas conglomerates

Global Electricity Production by Source



Largest Energy Companies<sup>2</sup> vs. Uranium Miners<sup>3</sup>



Included for illustrative purposes only. <sup>1</sup> Source: Ember for year 2023.

<sup>2</sup> Reflects the top five largest holdings by market capitalization in the SPDR Select Sector Energy ETF (NYSE: XLE) as of 9/30/2024.

<sup>3</sup> Source: Bloomberg as of 9/30/2024. Reflects equities classified by Sprott Asset Management



# Uranium Equities Have Outperformed During Uranium Bull Markets

Given the demand-supply dynamics for physical uranium, investors may want to consider uranium miners as a way to gain exposure to the sector



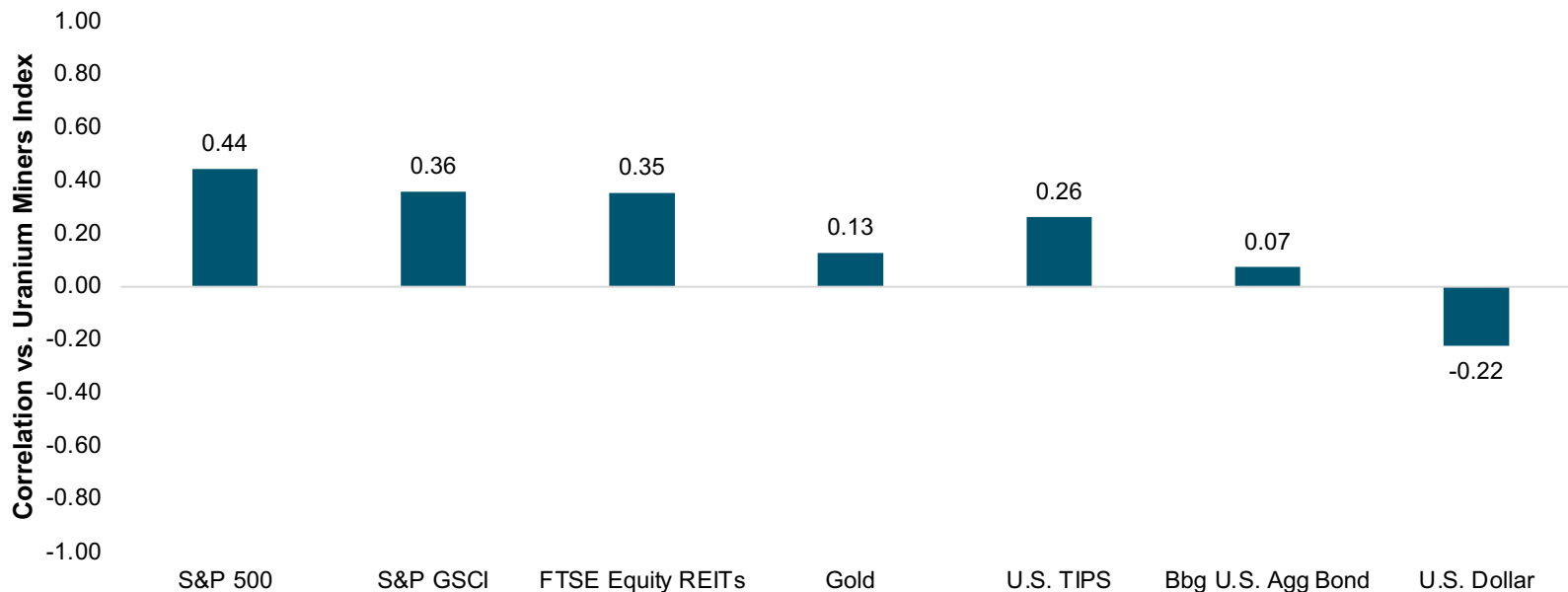
Source: Bloomberg and TradeTech LLC. Data from 1/30/2004 to 9/30/2024 reflecting longest available data. World Uranium Equities measured by URAX Index, which tracks the performance of stocks globally that conduct business with uranium. URAX and Uranium Spot denominated in U.S. dollars. You cannot invest directly in an index. **Past performance is no guarantee of future results.**



# Uranium Miners Have Offered Diversification

Uranium Miners have exhibited a low/moderate correlation to major asset classes, posing potential diversification benefits

Uranium Miners Correlation\* to Other Asset Classes



**\*Please Note:** Correlation is a measurement of the relationship between two assets and is expressed as a number between +1 and -1. A zero correlation indicates there is no relationship between the assets. A +1 indicates an absolute positive correlation (they always move together in the same direction). A -1 indicates an absolute negative correlation (they always move together in opposite directions of each other).

Diversification does not eliminate the risk of experiencing investment losses. You cannot invest directly in an index. Included for illustrative purposes only. **Past performance is no guarantee of future results.** Uranium Equity Index reflects The North Shore Global Uranium Mining Index (URNMX Index); S&P GSCI reflects the S&P GSCI Index (SPGSCI Index); S&P 500 reflects the S&P 500 Index (SPX Index); Bbg U.S. Agg Bond reflects the Bloomberg Barclays U.S. Aggregate Bond Index (LBUSTRUU Index); FTSE Equity REITs reflects the FTSE NAREIT Equity Index (FNRE Index); Gold reflects the Gold Spot Price (GOLDS Comdty); U.S. TIPS reflects the Bloomberg Barclays U.S. Treasury Inflation-Notes Index (LBUTTRUU Index); U.S. Dollar reflects the U.S. Dollar Spot Index (DXY Currency).

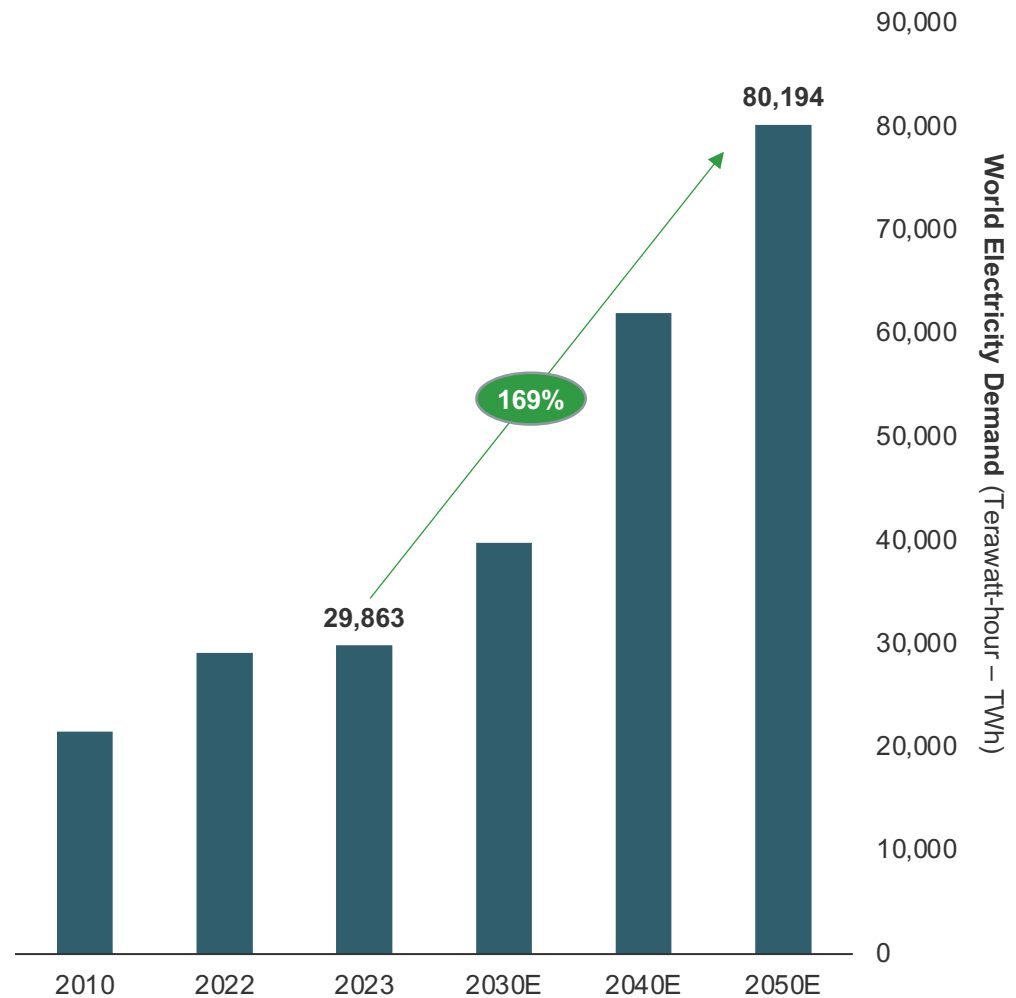
Source: Bloomberg. Monthly data from 6/30/2017 to 9/30/2024.

# Uranium Miners are Critical to Surging Global Energy Demand and the Energy Transition

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# Electricity Demand Estimated to Increase by 169% by 2050

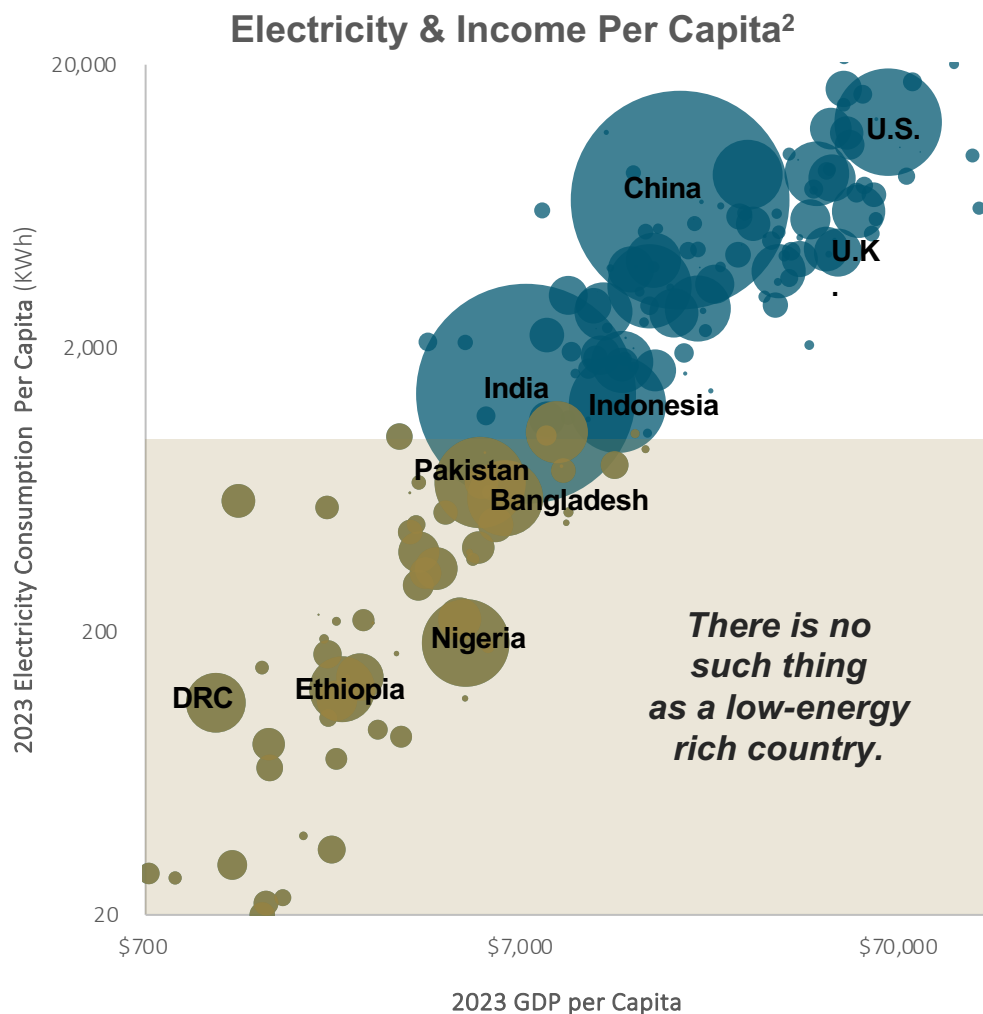
- Evolving energy systems require more electricity, which depends on critical materials.
- **Surging Energy Consumption in the East:** Driven by the urbanization and industrialization of developing countries.
- **Surging Energy Consumption in the West:** Driven by artificial intelligence (AI), data centers, electrification and reshoring.
- **The Global Energy Transition:** electricity generation, transmission and storage significantly depends on critical materials.



Source: IEA World Energy Outlook 2024 Net Zero Emissions Scenario. Included for illustrative purposes only.

# Economic Growth is Energy Intensive

- As countries develop and become wealthier the need for electricity intensifies.
- Developing countries' electricity growth has been substantial compared to developed countries, with cumulative growth from 2000-2023<sup>1</sup>:
  - China: 598%
  - India: 244%
  - U.S.: 12%
  - EU: 3%
- Critical materials demand is set to increase from nations increasing their energy generation, transmission and storage.



<sup>1</sup>Source: Ember for year 2023.

<sup>2</sup>Our World in Data as of 9/30/2024 (with data from IEA and World Bank). Included for illustrative purposes only.

# Nuclear: Ideal for Data Centers

## Amazon buys nuclear-powered data center from Talen

Thu, Mar 7, 2024, 8:01AM | Nuclear News



Susquehanna nuclear plant in Salem Township, Penn., along with the data center in foreground. (Photo: Talen Energy)

## Amazon, Google and Microsoft signal growing interest in nuclear, geothermal power

Rising demand from artificial intelligence is forcing big technology companies to look beyond wind and solar for clean energy.

By [Heather Clancy](#)

March 25, 2024

DIVE BRIEF

## Amazon announces small modular reactor deals with Dominion, X-energy, Energy Northwest

The digital retail and web services company led a \$500 million investment in X-energy and will support the development of more than 600 MW of SMR capacity in Washington and Virginia.

Published Oct. 16, 2024

American Nuclear Society: 3/7/2024; The Washington Post: 9/20/2024; Data Centre Dynamics: 10/3/2024; Trellis: 3/25/2024; U.S. Department of Energy: 10/16/2024; BNN Bloomberg: 10/16/2024; Industry Dive: 10/16/2024; Data Centre Dynamics: 9/10/2024.

## Microsoft deal would reopen Three Mile Island nuclear plant to power AI

The owner of the shuttered Pennsylvania plant plans to bring it online by 2028, with the tech giant buying all the power it produces.

## Google's CEO says company is considering nuclear power deals for data centers

Following Microsoft and Amazon's massive deals

October 03, 2024 By: [Sebastian Moss](#) [Have your say](#)

## Google Says Nuclear Is Key to Around-the-Clock Clean Power



The Diablo Canyon nuclear power plant in Avila Beach, California. Photographer: David Paul Morris

By [Naureen S Malik](#), [Edward Ludlow](#), and [Caroline Hyde](#)  
October 16, 2024 at 12:52 PM EDT

## Oracle to build nuclear SMR-powered gigawatt data center

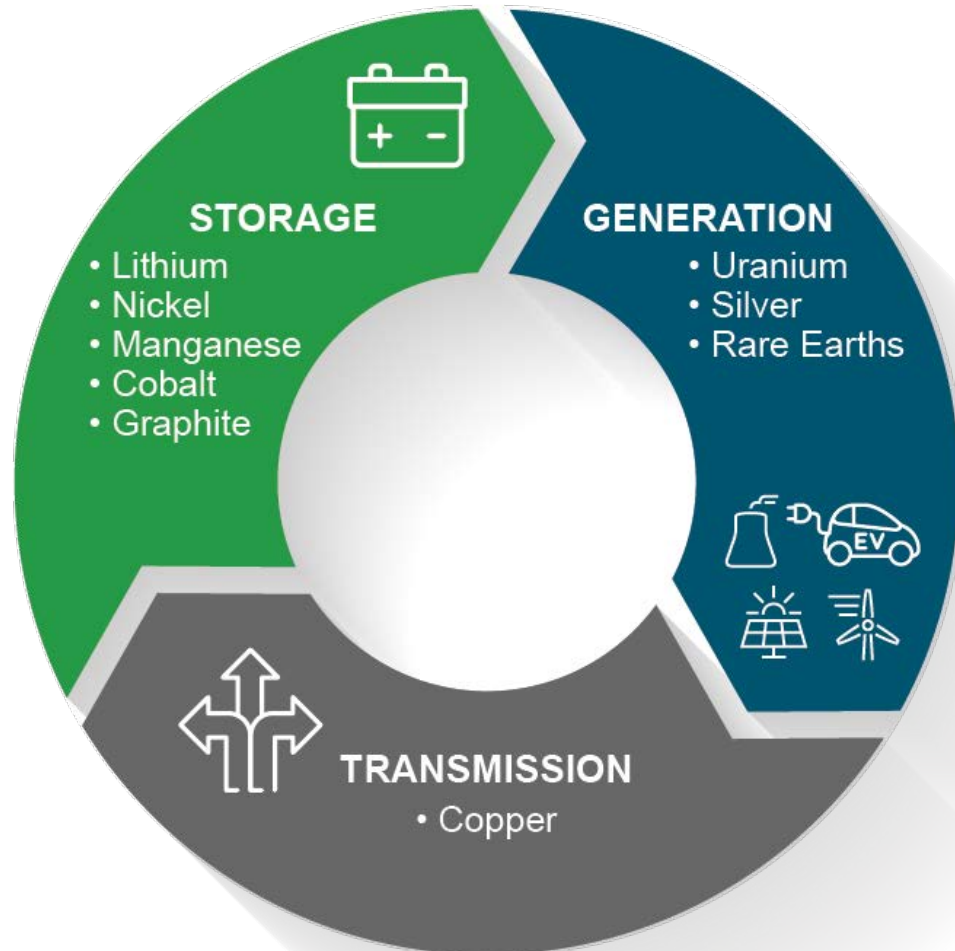
Quarterly revenues reach \$13.3bn, up 7% YoY

September 10, 2024 By: [Georgia Butler](#) [Have your say](#)

# Uranium Is a Critical Material for the Clean Energy Transition

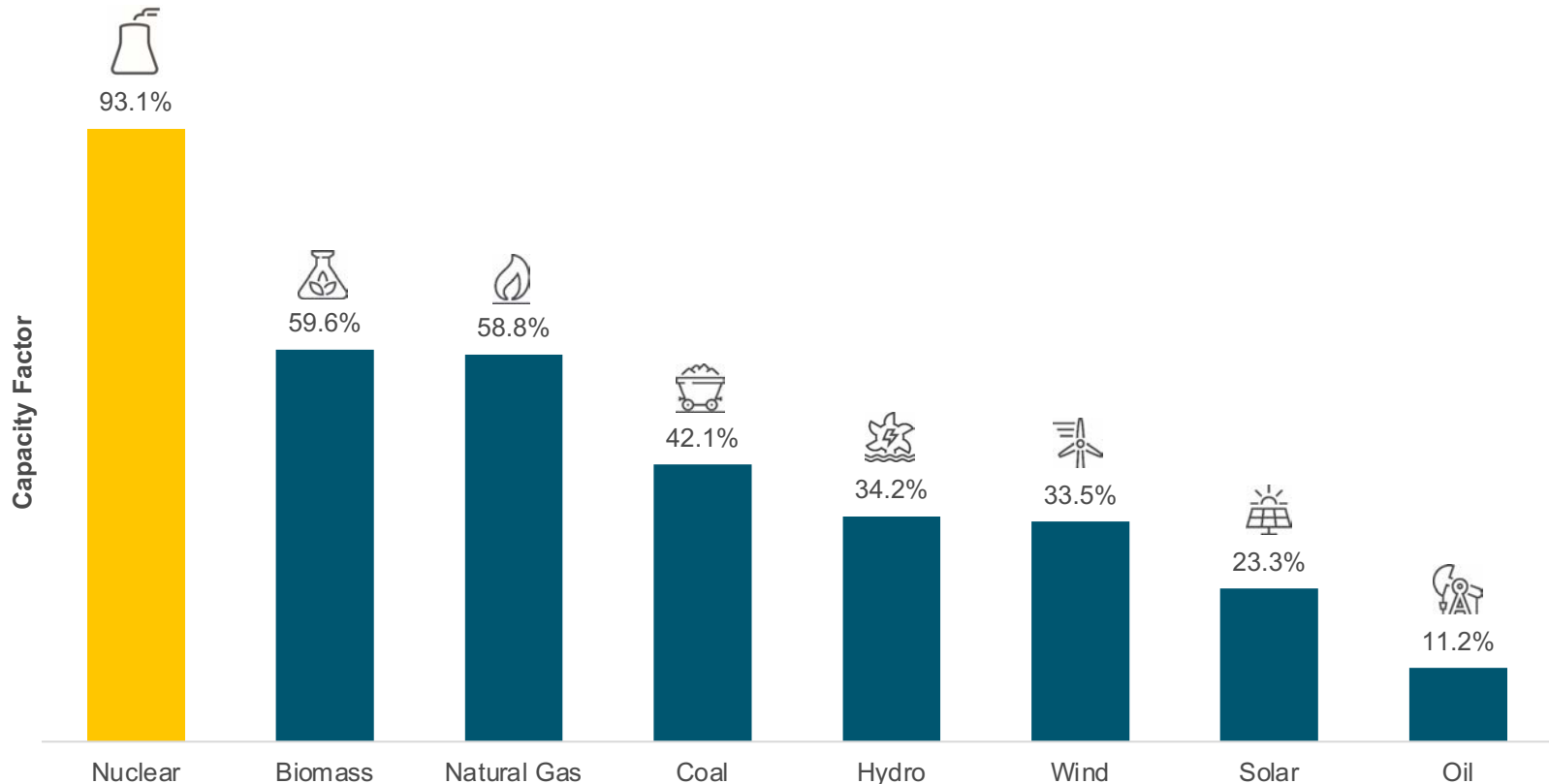
## Critical Materials

Natural materials that are essential to the generation, transmission and storage of clean energy.



# Nuclear Energy Is Reliable...

- Nuclear energy has the highest capacity factor<sup>1</sup> versus both traditional and alternative energy sources, prompting renewed attention to help solve global energy needs.
- Most nuclear power utilities are required to hold at least three years' worth of uranium supply.<sup>2</sup>



<sup>1</sup> Capacity factor measures the total amount of energy produced during a period of time divided by the amount of energy the plant would have produced at full capacity.

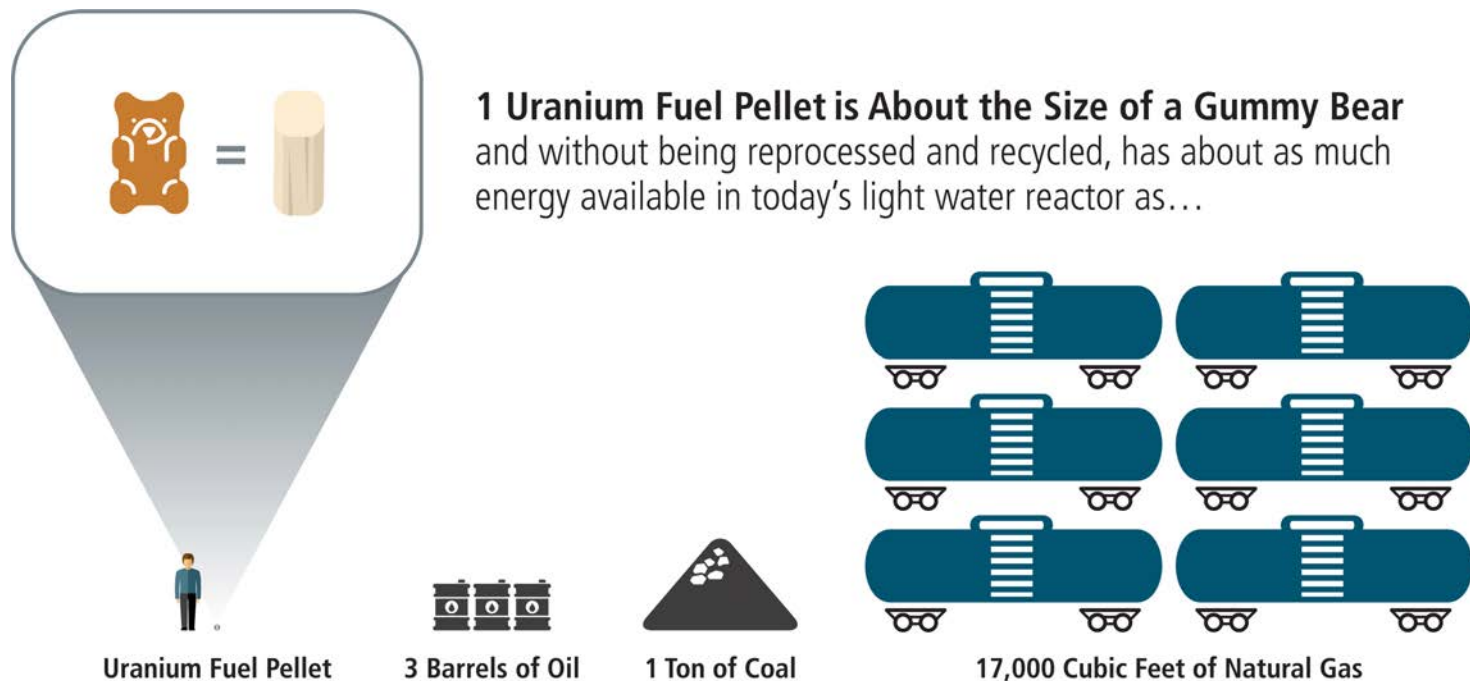
<sup>2</sup> According to research completed by Nigel Littlewood & Jackson Lee, May 2018 Research Note (Uranium).

Source: U.S. Energy Information Administration and energy.gov. Data as of 12/31/2023. Included for illustrative purposes only.



# Efficient...

- Uranium's high energy density reduces the impact of extraction and transport, facilitating the ability to contain waste.
- One nuclear fuel pellet is roughly 10-13 millimeters long and 8-13.5 millimeters in diameter (~ the size of a gummy bear) and weighs ~10 grams.<sup>1</sup>



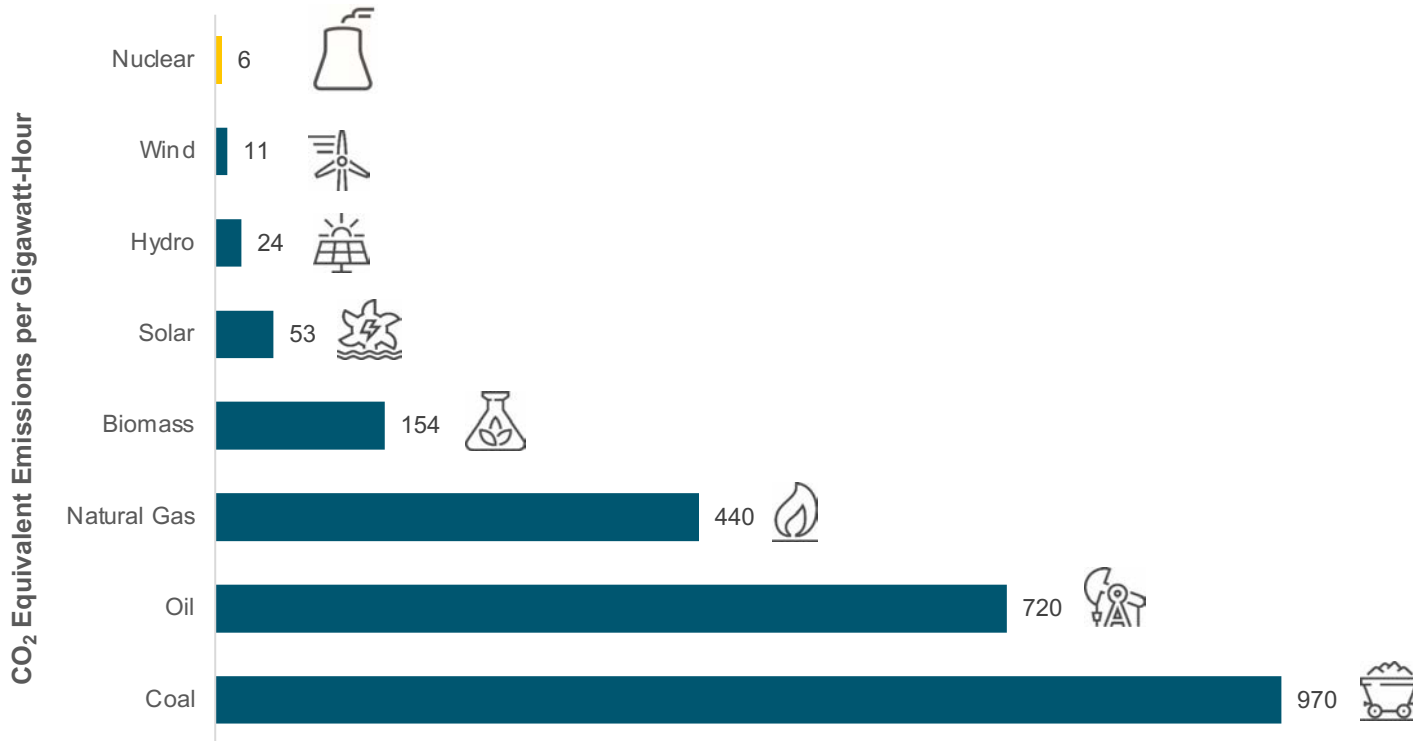
Source: American Nuclear Association.

<sup>1</sup> Cameco Corporation.

# Clean...

Nuclear energy produces the least CO<sub>2</sub> equivalent emissions versus other energy forms, helping solidify its place in global decarbonization goals.

## Nuclear has the Lowest Full-Cycle Carbon Footprint











Source: <https://ourworldindata.org/nuclear-energy> as of April 2024; measured in emissions of CO<sub>2</sub>-equivalent per gigawatt-hour of electricity over the life cycle of the power plant. Included for illustrative purposes only.

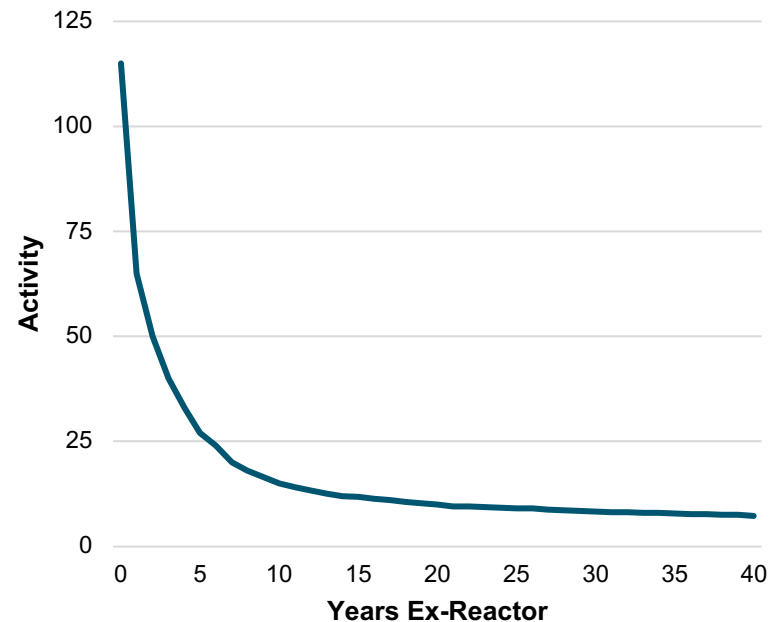
# Safe...

- Uranium is responsible for the lowest mortality rate per terawatt hour (TWh) of energy produced.
- Post-reactor radioactivity shows significant reductions after just 10 years.

**Mortality Rate per TWh of Energy Produced<sup>1</sup>**

Energy Source	Mortality Rate (per TWh)
 Solar	0.02
 <b>Nuclear*</b>	<b>0.03</b>
 Wind	0.04
 Hydro	1.3
 Natural Gas	2.8
 Biomass	4.6
 Oil	18.4
 Coal	24.6

**Post Reactor Radiation Levels (years)<sup>2</sup>**



Source: <https://ourworldindata.org/nuclear-energy-as-of-2021>. Represents the most up-to-date information available.

\*Death rate for nuclear energy includes deaths from Fukushima and Chernobyl disasters and the deaths from occupational accidents (largely mining and milling). Death rates from fossil fuels and biomass are based on state-of-the-art plants with pollution controls in Europe and are based on older models of the impacts of air pollution on health. This means these death rates are likely to be very conservative.

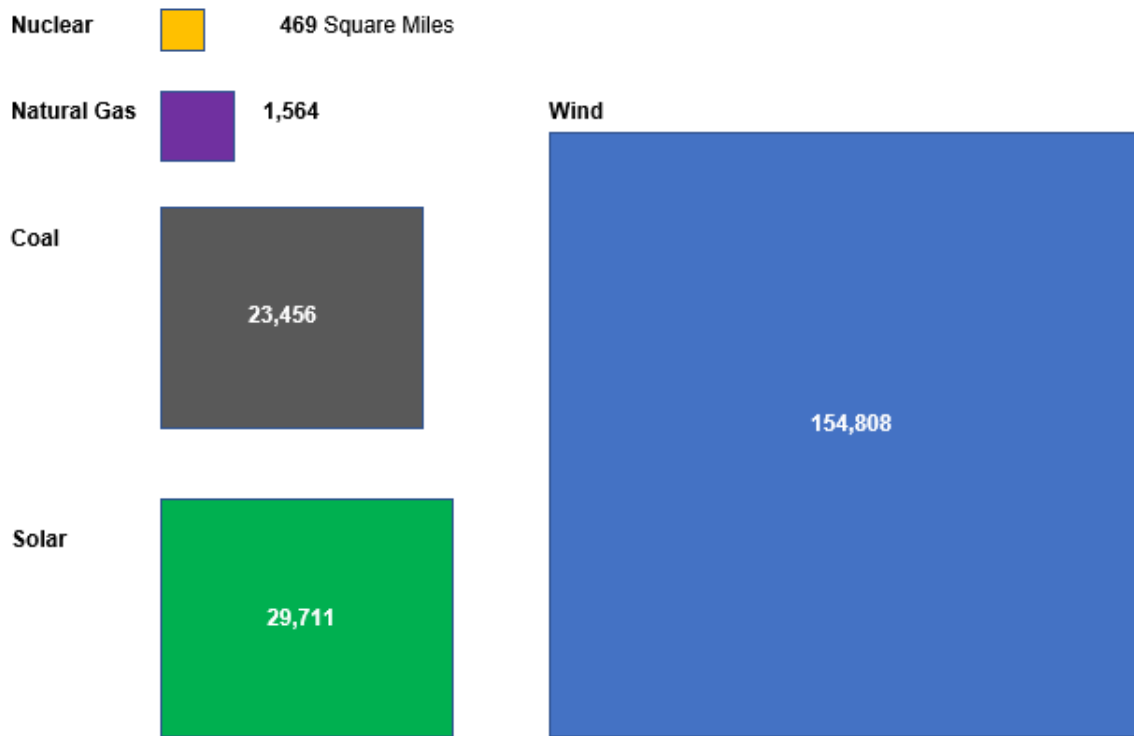
<sup>1</sup> Markandya & Wilkinson (2007) in *The Lancet*, and Sovacool et al. (2016) in *Journal of Cleaner Production*.

<sup>2</sup> <https://world-nuclear.org/information-library/nuclear-fuel-cycle/nuclear-waste/radioactive-waste-management>

# Nuclear Uses Less Land

- Nuclear energy uses the least land relative to the amount of energy generated.
- If solar and wind were to power the entire U.S., it would need an area the size of Texas.

## Nuclear has the Lowest Land Footprint: Square Miles to Power 2022 U.S. Electricity Consumption, 4.05 Trillion KWh

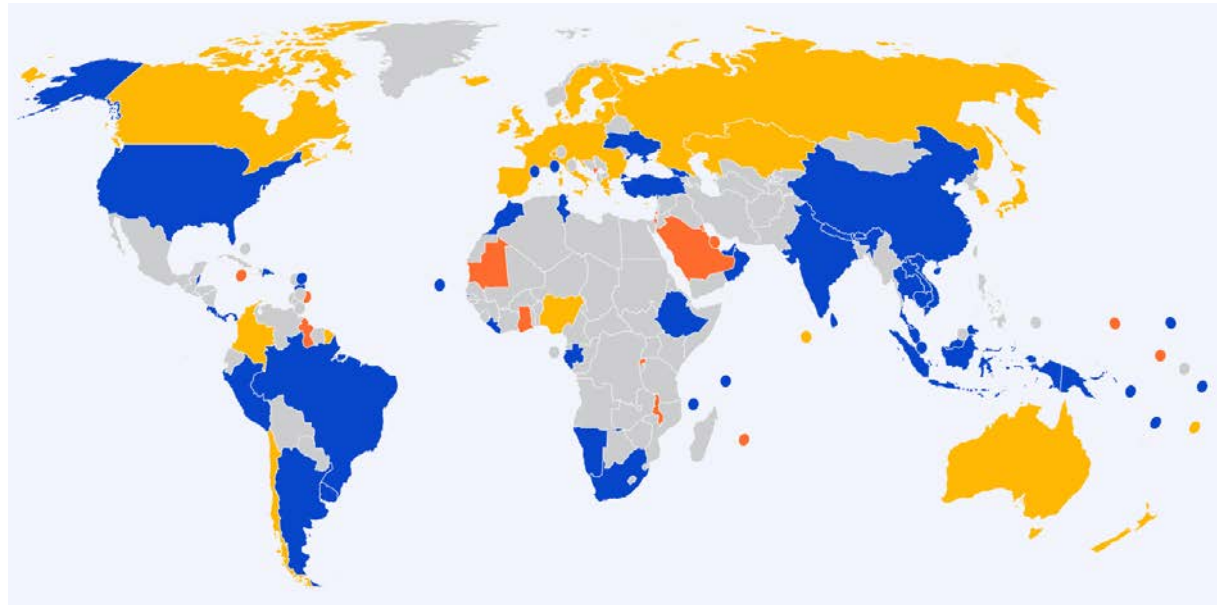
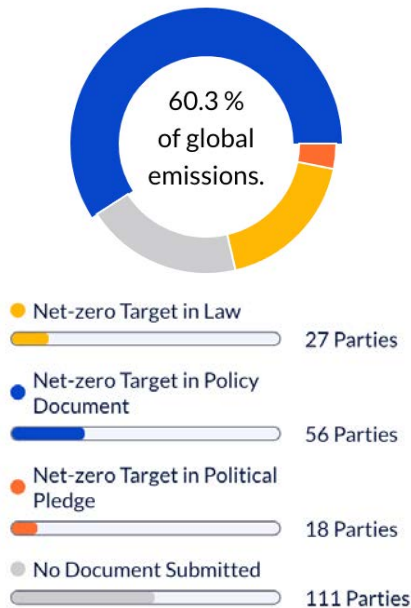


Source: <https://www.washingtonpost.com/climate-environment/interactive/2023/renewable-energy-land-use-wind-solar/> as of 5/10/2023.

# Most Nations Have Committed to Net-Zero Emissions Targets

# 101

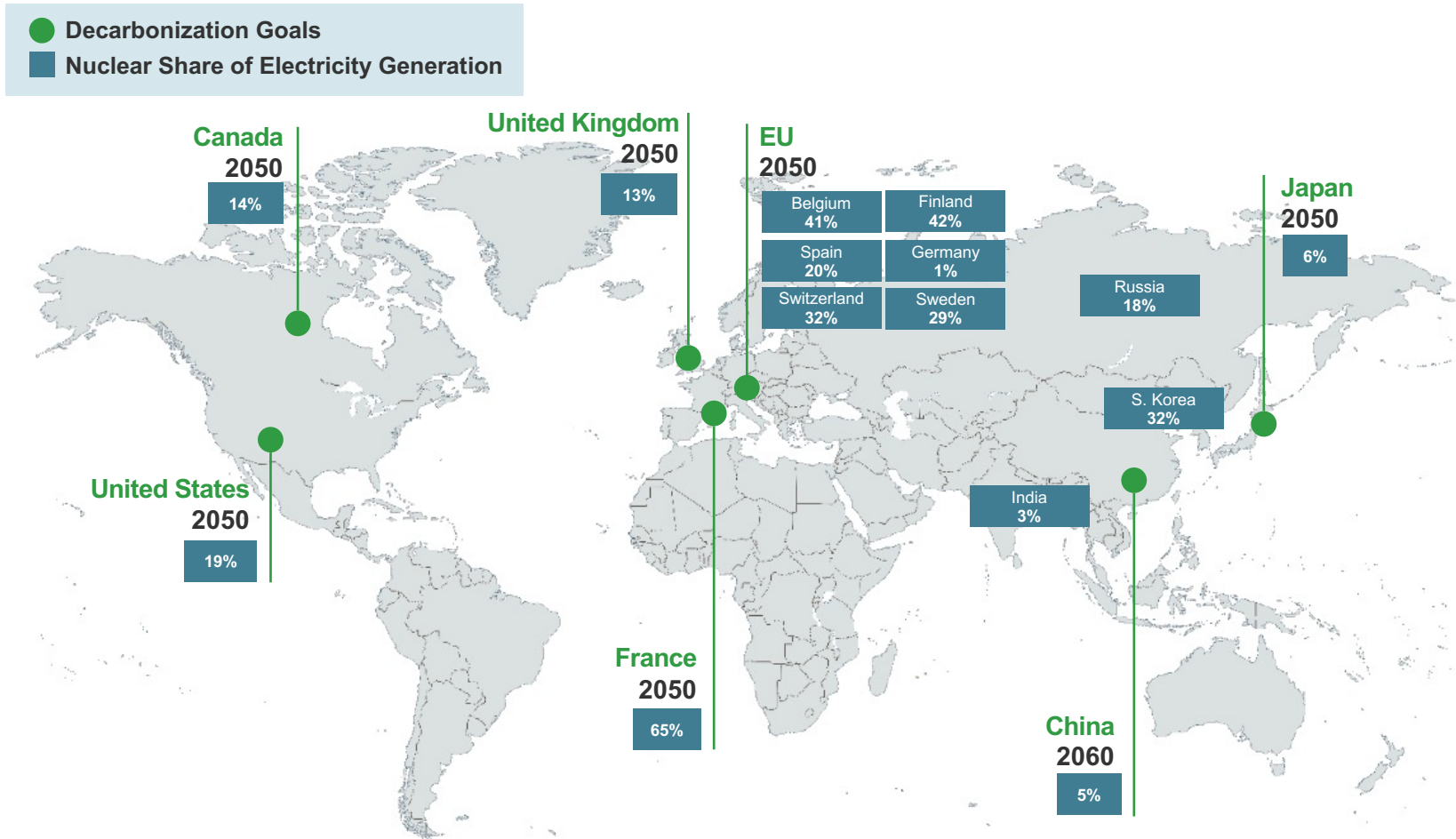
parties, representing 103 countries and 80.7% of global greenhouse gas emissions (GHGs), have communicated a net-zero target.



Source: Climatewatchdata.org at <https://www.climatewatchdata.org/net-zero-tracker> as of 10/4/2024. Included for illustrative purposes only.

# Decarbonization Goals Align with Nuclear Growth

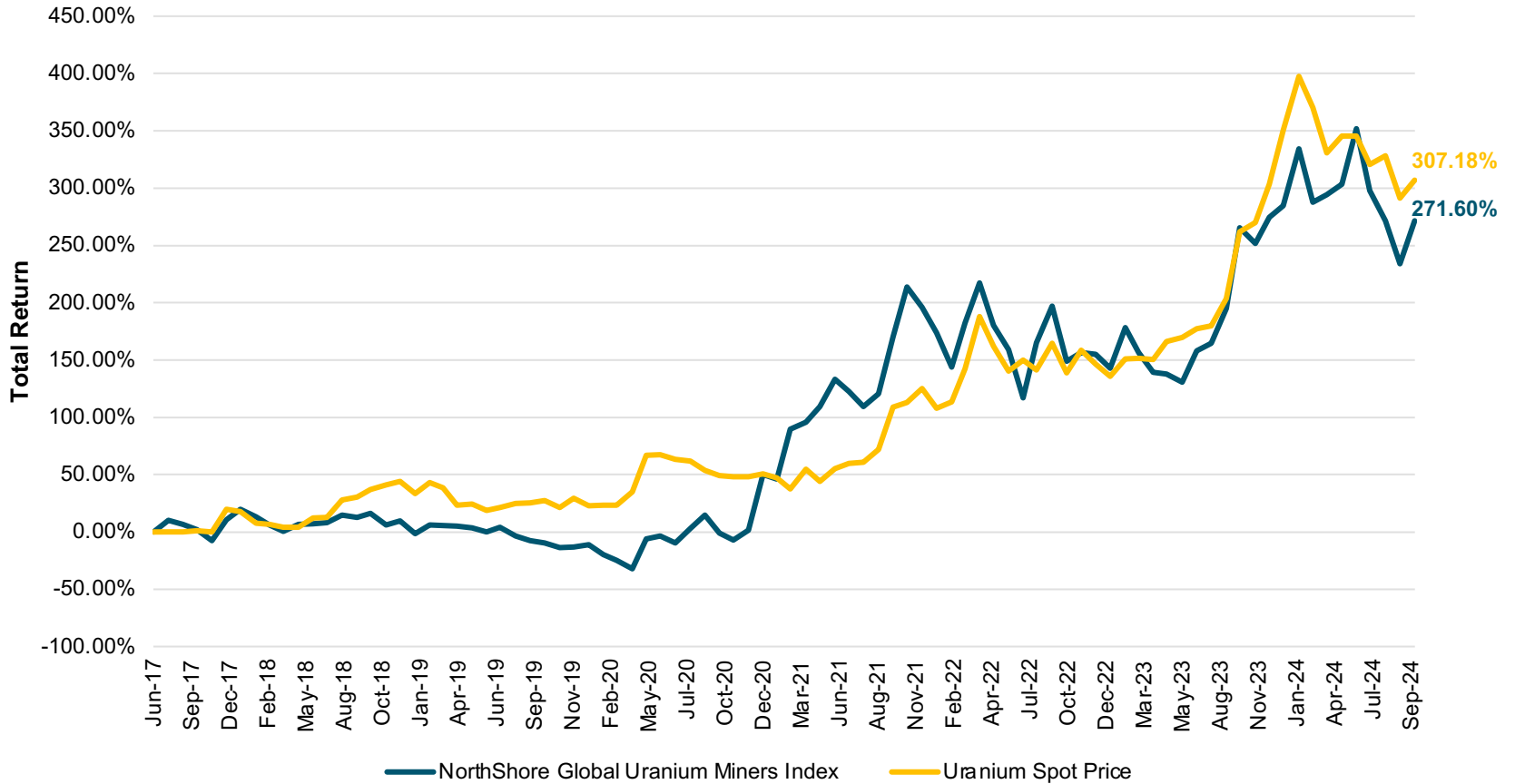
Major nations have set aggressive dates for decarbonization.



Source: Carbon Neutrality by 2050: the World's Most Urgent Mission. Technical assessment of nuclear energy with respect to the 'do no significant harm' criteria of Regulation (EU) 2020/852 ('Taxonomy Regulation'). World Nuclear as of 12/31/2023.

# Investor Sentiment Has Turned Positive

After trading flat from 2017-2019, uranium miners and uranium spot prices have accelerated since 2019.



Source: Bloomberg and TradeTech LLC. Data as of 9/30/2024. You cannot invest directly in an index. **Past performance is no guarantee of future returns.**



# Shift Back to Nuclear Energy

*DOE Announces \$900 Million to Accelerate the Deployment of Next-Generation Light-Water Small Modular Reactors*



U.S. DEPARTMENT OF  
**ENERGY**

*French president confirms project to build eight new nuclear reactors*

**CGTN**

*China Starts Construction of More Reactors as Part of Rapid Nuclear Buildout*

**POWER**

*U.S. needs major nuclear power expansion to meet rising electricity demand, Southern Company CEO says*

 **CNBC**

*White House announces steps to support nuclear power in US*

**PowerTechnology**

*Italy reconsiders nuclear energy 35 years after shutting down last reactor*

**SEMAFOR**

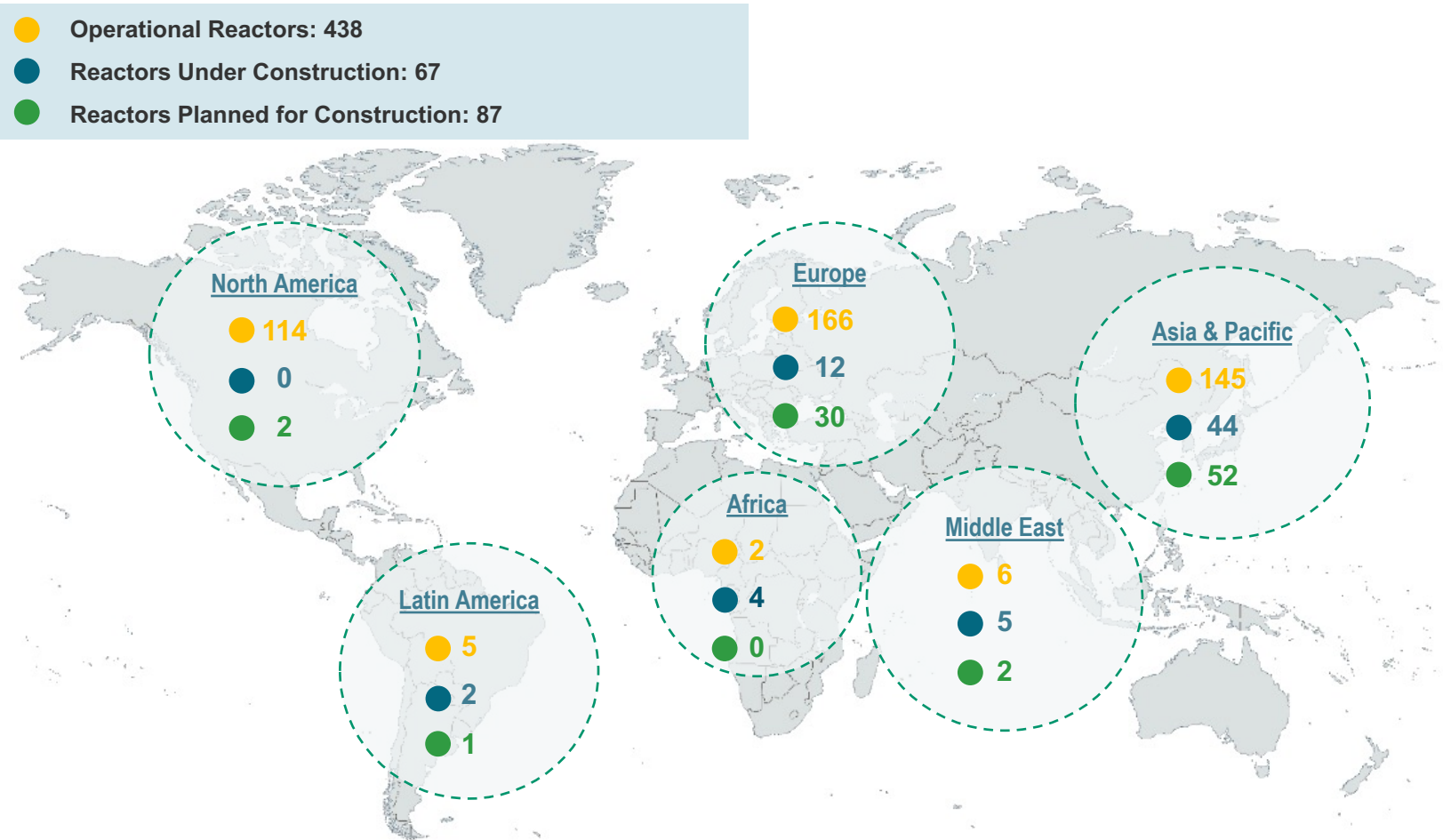
Sources: U.S. Department of Energy: 6/17/2024; CGTN: 6/12/2024; POWER: 7/29/2024; CNBC: 6/27/2024; Power Technology: 5/30/2024; Semafor: 7/15/2024.

## New Uranium Bull Market Is Underway, Incentivizing Miners and Investors

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# Nuclear Reactors in the World Today

- There are now 438 operational reactors globally with 67 under construction and 87 planned.
- Newly constructed nuclear reactors demonstrate greater efficiency than older models.



Source: World Nuclear Association as of 10/30/2024.

# Global Policy Initiatives Support Nuclear Energy

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Global governments are recognizing nuclear power's vital role as a carbon-free energy source.

## United States

- US. Department of Energy to spend \$3.4B to assist in transition away from Russian sources of uranium
- DOE announces \$900 million to accelerate the deployment of next generation small modular reactors (SMRs)
- Climate and energy provisions of Inflation Reduction Act commit \$370 Billion to clean energy
- U.S. climate & energy bill to provide \$15/MWh tax credit for existing reactors
- Biden's infrastructure bill supports nuclear:
  - \$6 billion to support at-risk nuclear power plants
  - Funding secured for \$3.5B of advanced nuclear power

## European Union (EU)

- UK new energy security policy includes 16GW of nuclear energy
- Netherlands earmarks €5B for new nuclear support by 2030
- Italy is considering resuming nuclear power
- Reactor life extensions in Czech Republic, Sweden, Belgium and Finland announced
- France approved €52 billion construction of 6 new reactors
- Polish government has approved its first nuclear power plant

## China

- Planning to grow to 400 gigawatts (account for 18% of electricity) by 2060, more than the current global fleet of nuclear plants
- China has ambitious plans with 30 reactors under construction, 36 planned and 158 reactors proposed

## Japan/South Korea

- Japan has restarted 13 reactors and another 12 are currently in the process of restart approval.
- Japan plans to generate at least 20% of its electricity from reactors by 2030
- South Korea made a full reversal of its nuclear phase-out policy and expanded its program

Sources: World Nuclear News; Bloomberg; Sprott Asset Management LP; WMC Energy.



# COP28: Nuclear Takes Center Stage

## *Decarbonization, Energy Security, Baseload Energy*

مضاعفة إنتاج الطاقة النووية ثلاث مرات بحلول عام 2050  
الإمارات العربية المتحدة، ديسمبر 2023

**TRIPLING NUCLEAR ENERGY BY 2050**

United Arab Emirates, December 2023

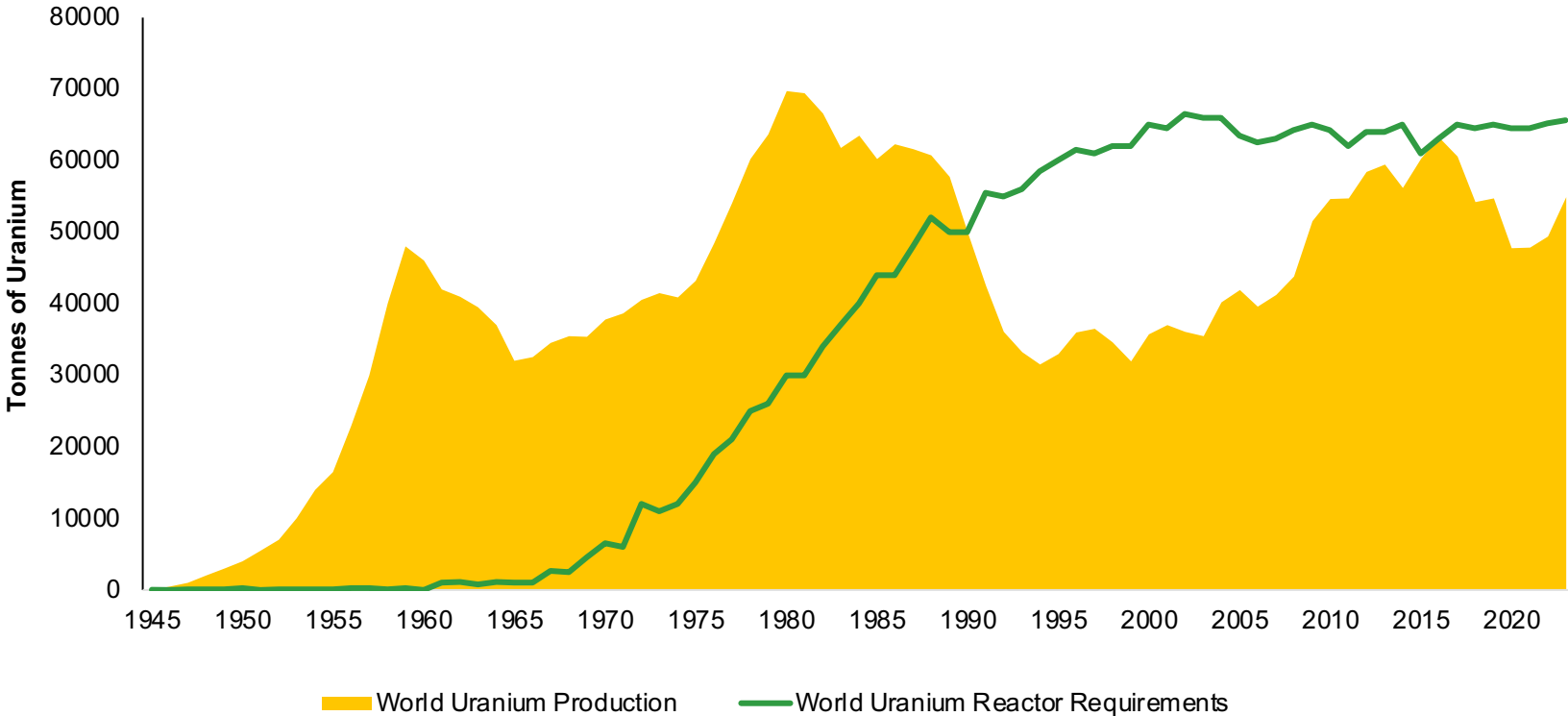


“What happened at COP28, the annual United Nations climate event held this year in Dubai was the greatest outpouring of global support for nuclear power the world has seen since the thunderous reception to Eisenhower’s Atoms for Peace call exactly 70 years ago,” wrote Seth Grae, President and CEO of Lightbridge Corporation and an ANS-badged COP28 delegate.

”

# World Uranium Production Is Not Meeting Nuclear Reactor Requirements

- World uranium production is currently failing to meet nuclear reactor requirements.
- The Cold War resulted in vast overproduction until the early 1990s followed by decades of underproduction thereafter.

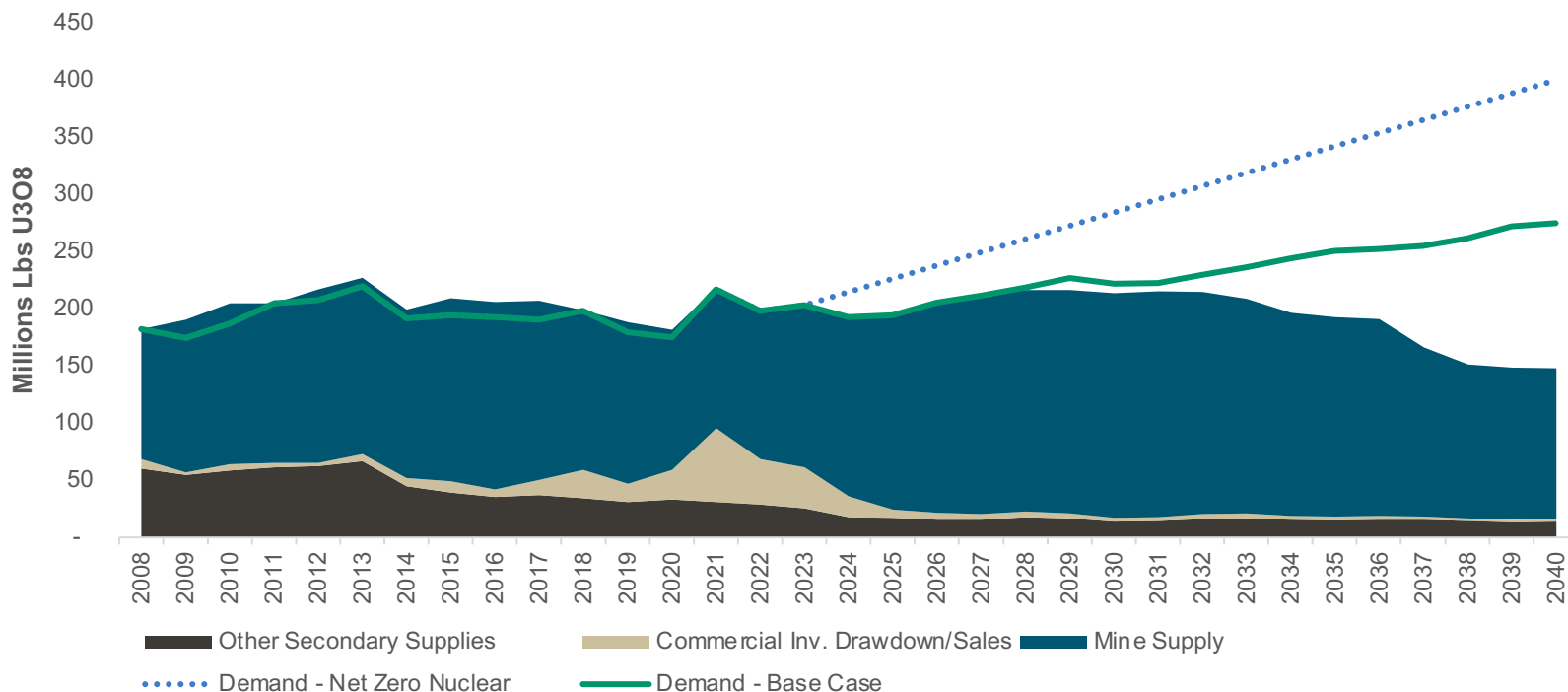


Source: OECD-NEA/IAEA, World Nuclear Association and UxC LLC as of 12/31/2023. Represents the most up-to-date information available.

# Uranium Supply and Demand Imbalance May Likely Grow

- We believe the era of inventory destocking is over.
- Demand for uranium may likely outstrip supply, with a nearly 1-billion-pound deficit to 2040.
- Net Zero Nuclear, the pledge to triple global nuclear capacity by 2050, would result in a nearly 2-billion-pound deficit.

Uranium Supply and Demand Estimates

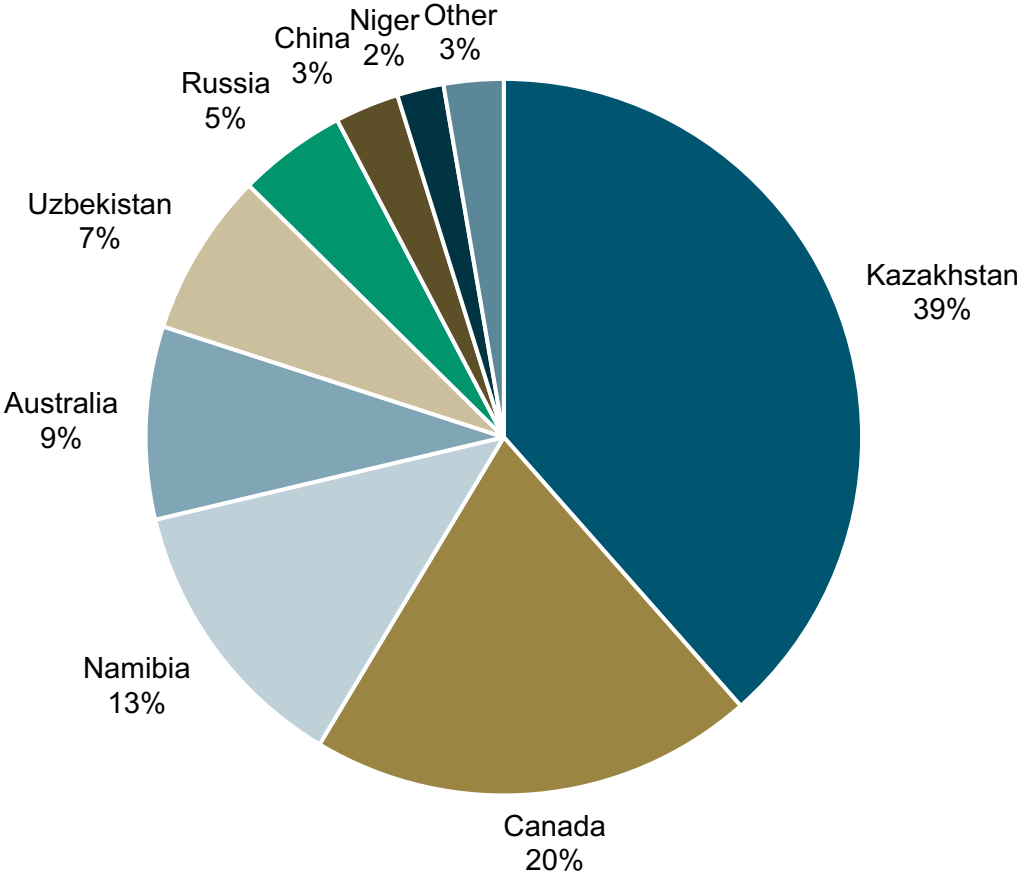


Sources: UxC LLC. and Cameco Corp. Data as of 9/30/2024.



# Largest Uranium-Producing Countries

39% of the total uranium production in 2023 came from Kazakhstan which is shipped through Russia.



Source: UxC LLC as of 12/31/2023.

# Reshoring of Western Nuclear Fuel Supply Chain Underway

Russia is a key play in nuclear fuel services – conversion & enrichment.

## Honeywell to Reopen Sole U.S. Uranium Conversion Plant

Honeywell is gearing up to reopen the Metropolis Works plant in Metropolis, Illinois—the U.S.'s sole uranium conversion facility—and restart production of uranium hexafluoride (UF<sub>6</sub>) by early 2023.

The Charlotte, North Carolina-based global technology giant told POWERN in a statement on Feb. 9 it has communicated to employees and officials its intent to reopen the facility, which it closed in early 2018 owing to slack demand for UF<sub>6</sub>, a basic component of enriched nuclear fuel used in commercial nuclear power reactors.

"As the only domestic uranium conversion facility, Honeywell's Metropolis Works facility has been an important national strategic asset, well-positioned to satisfy UF<sub>6</sub> demand both in the U.S. and abroad," the company said on Tuesday.

To meet the 2023 UF<sub>6</sub> production restart timeframe, Honeywell will hire 100 full-time employees as well as contractors by the end of next year, it said. "We're proud to bring these jobs back to the Metropolis community to meet the needs of our customers."



DOE Announces Next Steps to Build Domestic Uranium Supply for Advanced Nuclear Reactors As Part of President Biden's Investing in America Agenda

JANUARY 9, 2024

Nuclear fuel gets £300m boost as ministers say Putin will not hold UK to ransom

From: [Department for Energy Security and Net Zero](#)

Published 7 January 2024



Energy & Environment | New Nuclear | Regulation & Safety | Nuclear Policies | Corporate | [Uranium & Fuel](#) | [Wa](#)

## Urenco to expand US enrichment plant

07 July 2023



Uranium enrichment services provider Urenco has announced plans to increase capacity at its plant in Eunice, New Mexico - the only operating commercial uranium enrichment facility in North America - by 15%. New commitments from US customers for non-Russian fuel underpin this investment, the company noted.



The Urenco plant in Eunice, New Mexico. (Image: Urenco)



Urenco announces major Netherlands expansion to strengthen energy security

14 December 2023

## France Plans \$1.8 Billion Uranium Plant Expansion to Cut Reliance on Russia



The Georges Besse 2 Uranium enrichment site in Saint-Paul-Trois-Chateau, France. Photographer: Olivier Chassagnole/AFP/Getty Images

By [Francois De Beaupuy](#)

October 20, 2023 at 3:05 AM EDT

## GNF gets approval to manufacture higher enrichment fuel

15 February 2024



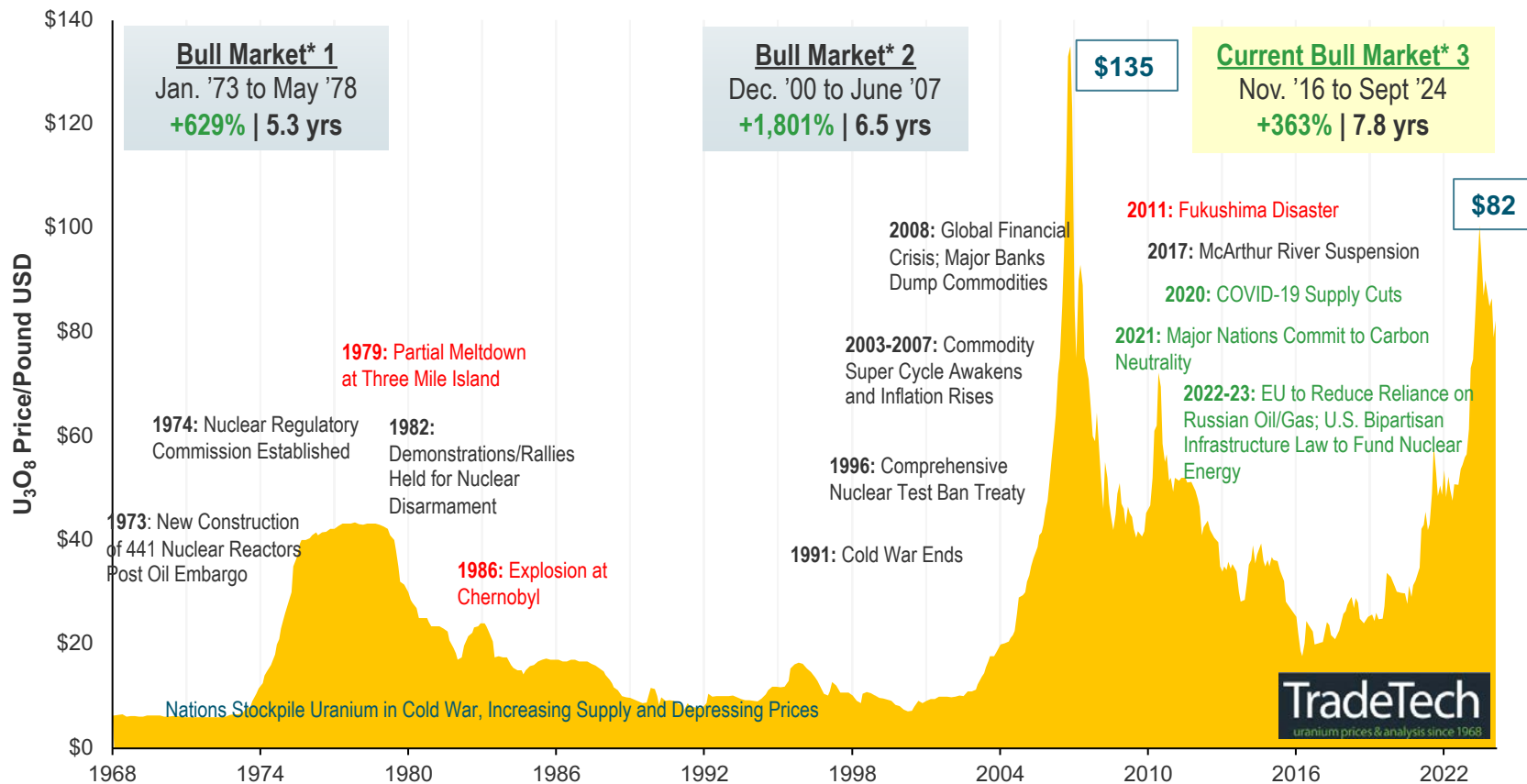
The US Nuclear Regulatory Commission (NRC) has approved GE Vernova's nuclear fuel business to manufacture, ship and analyse the performance of nuclear fuel with uranium-235 enrichments of up to 8%.



GE Vernova plant in Eunice, New Mexico. (Image: GE Vernova)

# New Uranium Bull Market is Underway Potentially with Room to Run

Growing production/demand imbalance and future utility contracting provide primary price support.

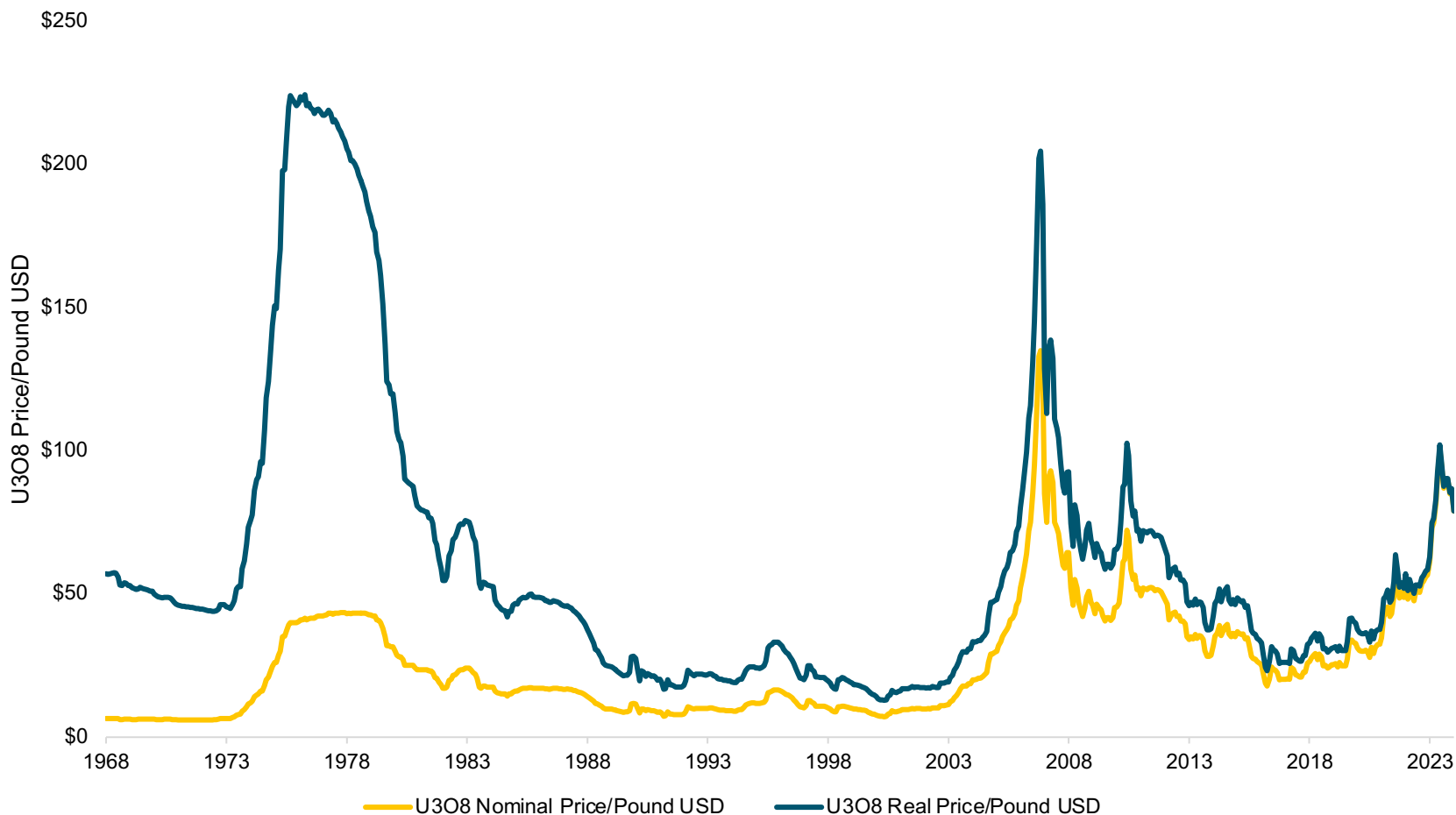


\*A "bull market" refers to a financial markets condition when prices are generally rising. A "bear market" refers to financial market conditions when prices are generally falling.

Source: TradeTech LLC. **Uranium spot price data** as of 9/30/2024. TradeTech is the leading independent provider of uranium prices and nuclear fuel market information. The uranium prices in this chart dating back to 1968 is sourced exclusively from TradeTech; visit <https://www.uranium.info/>.

## Investor Sentiment Has Turned Positive

In prior cycles, uranium peaked at \$US224/lb and \$US205/lb in today's dollar terms.



Source: TradeTech LLC and U.S. Bureau of Labor Statistics. **Uranium spot price data** as of 8/31/2024. TradeTech is the leading independent provider of uranium prices and nuclear fuel market information. The uranium prices in this chart dating back to 1968 is sourced exclusively from TradeTech; visit <https://www.uranium.info/>.

## Scramble to Reopen/Build Uranium Mines

- Higher prices are allowing miners to restart and develop projects
- Many uranium juniors have not yet sold their production forward and may be well positioned to benefit from further price increases – whether through developing projects themselves or M&A

Project	Primary Owner	2022	2023	2024	2025	2026	2027
<b>Restarted Idled Capacity (Total) MMib</b>		<b>1.1</b>	<b>13.6</b>	<b>27.6</b>	<b>41.8</b>	<b>47.7</b>	<b>55.2</b>
McArthur River	<b>Cameco Corp.</b>	1.1	13.5	18.0	18.2	18.4	18.2
Rabbit Lake	<b>Cameco Corp.</b>						3.6
Cameco U.S. ISR	<b>Cameco Corp.</b>					1.0	1.4
Multiple	<b>NAC Kazatomprom</b>			4.9	12.1	12.9	15.4
Langer Heinrich	<b>Paladin Energy Ltd.</b>			2.5	3.5	4.5	5.5
Lost Creek	<b>Ur-Energy Inc.</b>		0.1	0.7	1.0	1.0	1.0
Shirley Basin	<b>Ur-Energy Inc.</b>					1.0	1.0
Honeymoon	<b>Boss Energy Ltd.</b>			0.8	1.6	2.5	2.5
Christensen Ranch	<b>Uranium Energy Corp.</b>			0.3	1.0	1.0	1.0
Rosita	<b>Encore Energy Corp.</b>			0.3	0.8	0.8	0.8
Alta Mesa	<b>Encore Energy Corp.</b>			0.1	0.5	0.7	0.7
Multiple	<b>Energy Fuels Inc.</b>				1.4	2.0	2.0
Lance	<b>Peninsula Energy Ltd.</b>				0.8	1.2	1.4
McClellan Lake	<b>Denison Mines Corp.</b>				0.8	0.6	0.6
Tony M	<b>IsoEnergy Ltd.</b>				0.1	0.1	0.1
<b>New Mines under Development (total)</b>						<b>1.4</b>	<b>4.9</b>
Dasa	<b>Global Atomic Corp.</b>					1.4	4.9

Source: Mike Kozak, Uranium Analyst, Cantor Fitzgerald, September 2024. Company websites and UxC LLC. Assumes certain miners will be restarted that have yet to be announced. **2024-2027 is forecasted information from Cantor Fitzgerald's report.** Included for illustrative purposes only.

# **Sprott Uranium Miners ETFs**

## Overview of Funds

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# Sprott Uranium Miners ETF (URNM)

**Sprott Uranium Miners ETF (NYSE Arca: URNM)** is the only<sup>1</sup> ETF to provide pure-play<sup>2</sup> exposure to uranium miners and physical uranium essential to nuclear power.

## Key Points

- 1. Pure-Play Uranium ETF** – A U.S.-listed uranium ETF focused on uranium miners and physical uranium.
- 2. Uranium Bull Market** – A new uranium bull market is likely underway as demand outstrips supply, nations seek energy security and prices have the potential to increase—incentivizing miners and providing opportunities to investors.
- 3. Critical Material in Meeting Energy Demand** – Uranium and nuclear energy may be critical to meeting the world’s expanding need for electricity, and countries recently committed to tripling global nuclear energy capacity by 2050 to reach net-zero goals.
- 4. Supporting Energy Security** – Uranium and nuclear energy may help countries achieve a reliable and affordable source of electricity.

### Investment Objective

**Sprott Uranium Miners ETF (NYSE Arca: URNM)** seeks to invest at least 80% of its total assets in securities of the North Shore Global Uranium Mining Index (URNMX). The Index is designed to track the performance of companies that devote at least 50% of their assets to the uranium mining industry, which may include mining, exploration, development and production of uranium, or holding physical uranium, owning uranium royalties or engaging in other non-mining activities that support the uranium mining industry.

### ETF Details

(as of September 30, 2024)

- Ticker: URNM
- Underlying Index: URNMX
- Index Rebalancing: Semi-Annually
- Listing Exchange: NYSE Arca
- CUSIP: 85208P303
- ISIN: US85208P3038
- Fund Inception: December 3, 2019<sup>3</sup>
- Fund AUM: \$1.6 billion

### Fees and Expenses

(as of the most recent prospectus)

- Management Fee: 0.75%
- Other Expenses: 0.00%
- **Total Annual Fund Operating Expenses: 0.75%**

<sup>1</sup> Based on Morningstar’s universe of Natural Resources Sector Equity ETFs as of 9/30/2024.  
<sup>2</sup> The term “pure-play” relates directly to the exposure that the Fund has to the total universe of investable, publicly listed securities in the investment strategy.  
<sup>3</sup> Inception Date: 12/3/2019. URNM was reorganized from the North Shore Global Uranium Mining ETF into the Sprott Uranium Miners ETF on 4/22/2022. URNM is a continuation of the prior ETF and, therefore, the performance information shown includes the prior ETF’s performance.



# The North Shore Global Uranium Mining Index (URNMX)\*

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**The Sprott Uranium Miners ETF seeks to track the North Shore Global Uranium Mining Index. The index follows a published, rules-based methodology:**

## Holdings Criteria

- Must have a company level market capitalization of at least \$40 million and must maintain a minimum market capitalization of \$25 million
- Company has a significant part of its business operations related to the uranium industry (in particular uranium mining, exploration for uranium, physical uranium investments and technologies related to the uranium industry)
- Company is listed on a stock exchange or regulated market

## Index Composition & Weightings

- An aggregate weight of 82.5% is assigned to uranium miners, explorers, developers and producers and an aggregate weight of 17.5% is assigned to entities that hold physical uranium, uranium royalties or other non-mining assets
- The constituents within each of these buckets are then weighted by their market capitalization
- A maximum weighting of 15% and a minimum weighting of 0.30% is applied
- No more than five issuers will have a weight greater than 4.70% and the aggregate weight of all the components with a weight greater than 5% is capped at 50%

## Index Rebalancing

- The Index is adjusted semi-annually after the close of business on the last trading day of March and September each year

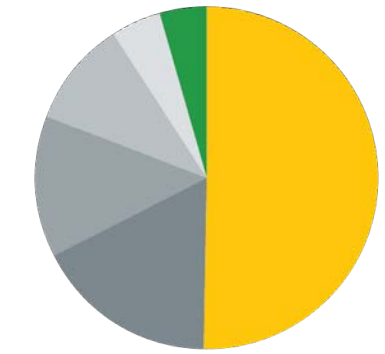
*\*Please refer to the Sprott Uranium Miners ETF's prospectus for full details on index methodology.*

# Sprott Uranium Miners ETF Composition

## Portfolio Characteristics<sup>1</sup> (As of 9/30/2024)

- Number of Issuers: 38
- Market Cap (millions): \$51,739
- Weighted Avg. Company Market Cap (millions): \$5,317
- **Market Cap Breakdown**
  - Large (>\$10B): 15.59%
  - Medium (\$2-\$10B): 28.14%
  - Small (<\$2B): 44.11%
  - Not Classified: 12.16%
- **Industry Weighting**
  - Uranium & Related Equities:<sup>2</sup> 84.02%
  - Physical Uranium:<sup>3</sup> 15.98%

## Company Domicile Breakdown<sup>1</sup> (As of 9/30/2024)



- Canada – 50.54%
- Australia – 17.12%
- Kazakhstan – 13.32%
- United States – 10.04%
- Hong Kong – 4.76%
- United Kingdom – 4.21%

<sup>1</sup> Excludes cash.

<sup>2</sup> Reflects equities classified by the Bloomberg Industry Classification System (BICS) as uranium; solid waste collection & treatment; nickel, lead & zinc; base metals; mineral & precious stone mining; metals, ore wholesalers & traders.

<sup>3</sup> Includes holdings focused on the physical ownership of uranium: Sprott Physical Uranium Trust and Yellow Cake PLC.



# Performance History

## Performance: Average Annual Total Returns\* (%)

QUARTER END AS OF 9/30/2024	1 MO	3 MO	YTD	1 YR	3 YR	S.I. <sup>1</sup>
Sprott Uranium Miners ETF (Net Asset Value)	11.20	-6.90	-3.74	1.05	10.31	34.57
Sprott Uranium Miners ETF (Market Price) <sup>2</sup>	9.51	-7.04	-4.98	0.86	9.49	34.30
North Shore Global Uranium Mining Index (Benchmark) <sup>3</sup>	11.32	-6.57	-3.39	1.65	11.23	35.73
MSCI All Country World Index <sup>3</sup>	2.32	6.61	18.66	31.76	8.09	11.73

### Fees and Expenses (as of the most recent prospectus)

Management Fee: 0.75% | Other Expenses: 0.00% | **Total Annual Fund Operating Expenses: 0.75%**

**Performance data quoted represents past performance. Past performance does not guarantee future results. Current performance may be higher or lower than actual data quoted. Call 1.888.622.1813 or visit [www.sprottetfs.com](http://www.sprottetfs.com) for current month end performance. The investment return and principal value of an investment will fluctuate so that an investor’s shares, when redeemed, may be worth more or less than their original cost.**

\*Returns less than one year are not annualized.

<sup>1</sup> Inception Date: 12/3/2019. URNM was reorganized from the North Shore Global Uranium Mining ETF into the Sprott Uranium Miners ETF on 4/22/2022. URNM is a continuation of the prior ETF and, therefore, the performance information shown includes the prior ETF’s performance.

<sup>2</sup> Market Price is based on the midpoint of the bid/ask spread at 4 p.m. ET and does not represent the returns an investor would receive if shares were traded at other times.

<sup>3</sup> The North Shore Global Uranium Mining Index (URNMX) was created by North Shore Indices, Inc. (the “Index Provider”). The Index Provider developed the methodology for determining the securities to be included in the Index and is responsible for ongoing maintenance of the Index. The Index is calculated by Indxx, LLC, which is not affiliated with the North Shore Global Uranium Miners Fund (“Existing Fund”), ALPS Advisors, Inc. (the “Sub-Adviser”) or Sprott Asset Management LP (the “Sponsor”). The MSCI All Country World Index (MSCI ACWI) includes stocks from 23 developed countries and 24 emerging markets, covering approximately 85% of the global investable equity opportunity set. One cannot invest directly in an index.

# Sprott Junior Uranium Miners ETF (URNJ)

**Sprott Junior Uranium Miners ETF (Nasdaq: URNJ)** is the only<sup>1</sup> ETF to provide pure-play<sup>2</sup> exposure to small,<sup>3</sup> exploration- and development-stage uranium miners with the potential for revenue and asset growth.

## Key Points

- 1. Pure-Play Junior Uranium ETF** – The only pure-play ETF focused on small uranium miners, with the potential for significant revenue and asset growth.
- 2. Uranium Bull Market** – A new uranium bull market is likely underway as demand outstrips supply, nations seek energy security and prices have the potential to increase—incentivizing miners to explore and develop new uranium mines.
- 3. Critical Material in Meeting Energy Demand** – Uranium and nuclear energy may be critical to meeting the world’s expanding need for electricity, and countries recently committed to tripling global nuclear energy capacity by 2050 to reach net-zero goals.
- 4. Supporting Energy Security** – Uranium and nuclear energy provide reliable, affordable electricity that may help countries achieve energy security.

<sup>1</sup>Based on Morningstar’s universe of Natural Resources Sector Equity ETFs as of 9/30/2024.

<sup>2</sup>The term “pure-play” relates directly to the exposure that the Fund has to the total universe of investable, publicly listed securities in the investment strategy.

<sup>3</sup>“Small” represents mining companies under \$2B in market capitalization.

<sup>4</sup>Reflects Total Annual Operating Expenses as outlined in the most recent prospectus. For the services the Adviser (Sprott Asset Management USA, Inc.) provides to the Fund, the Adviser is entitled to receive an annual advisory fee from the Fund calculated daily and paid monthly at an annual rate of 0.80% of net assets. Please see the end of this presentation for additional disclosures.

## Investment Objective

**Sprott Junior Uranium Miners ETF (Nasdaq: URNJ)** seeks to provide investment results that, before fees and expenses, correspond generally to the total return performance of the Nasdaq Sprott Junior Uranium Miners™ Index (NSURNJ™), which is designed to track the performance of mid-, small- and micro-cap companies in uranium mining-related businesses.

## ETF Details

(as of September 30, 2024)

- Ticker: URNJ
- Underlying Index: NSURNJ™
- Index Rebalancing: Semi-Annually
- Listing Exchange: Nasdaq®
- CUSIP: 85208P808
- ISIN: US85208P8086
- Fund Inception: February 1, 2023
- Fund AUM: \$292.5 million

## Fees and Expenses

(as of the most recent prospectus<sup>4</sup>)

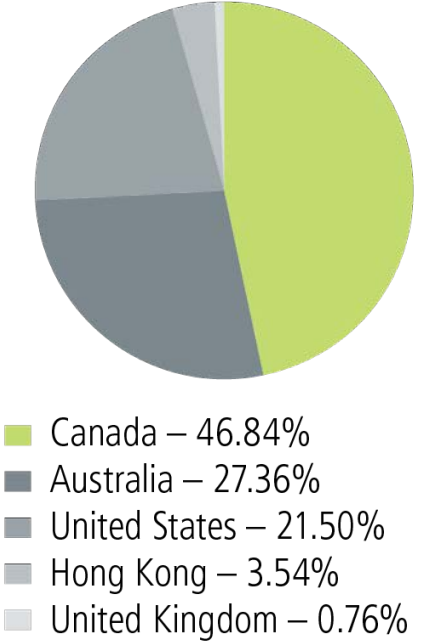
- Management Fee: 0.80%
- Other Expenses: 0.00%
- **Total Annual Fund Operating Expenses: 0.80%**

# Sprott Junior Uranium Miners ETF Composition

## Portfolio Characteristics<sup>1</sup> (As of 9/30/2024)

- Number of Issuers: 33
- Market Cap (millions): \$19,788
- Weighted Avg. Company Market Cap (millions): \$1,561
- **Market Cap Breakdown**
  - Large (>\$10B): 0.00%
  - Medium (\$2-\$10B): 35.79%
  - Small (<\$2B): 64.21%
- **Material Weightings<sup>2</sup>**
  - Uranium Equities: 100.00%

## Company Domicile Breakdown<sup>1</sup> (As of 9/30/2024)



<sup>1</sup>Excludes cash.

<sup>2</sup>Reflects equities classified by Sprott Asset Management.

## Performance History

### Performance: Average Annual Total Returns\* (%)

QUARTER END AS OF 9/30/2024	1 MO	3 MO	YTD	1 YR	S.I. <sup>1</sup>
Sprott Junior Uranium Miners ETF (Net Asset Value)	14.93	-6.90	-3.55	-1.31	9.23
Sprott Junior Uranium Miners ETF (Market Price) <sup>2</sup>	12.46	-6.96	-5.61	-1.85	8.21
Nasdaq Sprott Junior Uranium Miners™ Index (Benchmark) <sup>3</sup>	15.96	-5.90	-2.27	-0.37	10.45
MSCI All Country World Index <sup>3</sup>	2.32	6.61	18.66	31.76	19.32

#### Fees and Expenses (as of the most recent prospectus<sup>4</sup>)

- Management Fee: 0.80%
- Other Expenses: 0.00%
- **Total Annual Fund Operating Expenses: 0.80%**

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\*Returns less than one year are not annualized.

<sup>1</sup>Inception Date: 2/1/2023.

<sup>2</sup>Market Price is based on the midpoint of the bid/ask spread at 4 p.m. ET and does not represent the returns an investor would receive if shares were traded at other times.

<sup>3</sup>The Nasdaq Sprott Junior Uranium Miners™ Index (NSURNJ™) was co-developed by Nasdaq® (the "Index Provider") and Sprott Asset Management LP (the "Sponsor"). The Index Provider and Sponsor co-developed the methodology for determining the securities to be included in the Index and the Index Provider is responsible for the ongoing maintenance of the Index. The Sponsor will provide certain services in connection with the Index including contributing inputs in connection with the eligibility and process to determine the initial selection and ongoing composition of the Index constituents. The MSCI All Country World Index (MSCI ACWI) includes stocks from 23 developed countries and 24 emerging markets, covering approximately 85% of the global investable equity opportunity set. One cannot invest directly in an index.

<sup>4</sup>Reflects Total Annual Operating Expenses as outlined in the most recent prospectus. For the services the Adviser (Sprott Asset Management USA, Inc.) provides to the Fund, the Adviser is entitled to receive an annual advisory fee from the Fund calculated daily and paid monthly at an annual rate of 0.80% of net assets. Please see the end of this presentation for additional disclosures.

# Sprott Client Services Team

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## Ed Coyne

Senior Managing Partner, Global Sales  
646.599.0859 | [ecoyne@sprottusa.com](mailto:ecoyne@sprottusa.com)

## Key Accounts

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### John H. Kinnane, CIMA®

Director, Key Accounts  
401.787.7525 | [jkinnane@sprottusa.com](mailto:jkinnane@sprottusa.com)  
[keyaccounts@sprottusa.com](mailto:keyaccounts@sprottusa.com)

### Ekaterina Burykh

Associate, Key Accounts  
212.966.7439 | [eburykh@sprottusa.com](mailto:eburykh@sprottusa.com)  
[keyaccounts@sprottusa.com](mailto:keyaccounts@sprottusa.com)

## Institutional Client Relations

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### Glen Williams

Managing Partner, Investor & Institutional Client Relations  
416.943.4394 | [gwilliams@sprott.com](mailto:gwilliams@sprott.com)

### Julia Hathaway

Director, Institutional Client Relations  
212.784.6849 | [jchathaway@sprottusa.com](mailto:jchathaway@sprottusa.com)

### Michael Ferreira

Director, Family Office Relations  
917.581.3895 | [mferreira@sprottusa.com](mailto:mferreira@sprottusa.com)

### Chris von Strasser

Director, Institutional Sales  
917.496.3389 | [cstrasser@sprottusa.com](mailto:cstrasser@sprottusa.com)

## Financial Advisors and Individual Investors

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● **Matt Harrison** (Western Region)  
Senior Investment Consultant  
416.945.3313 | [mmharrison@sprott.com](mailto:mmharrison@sprott.com)

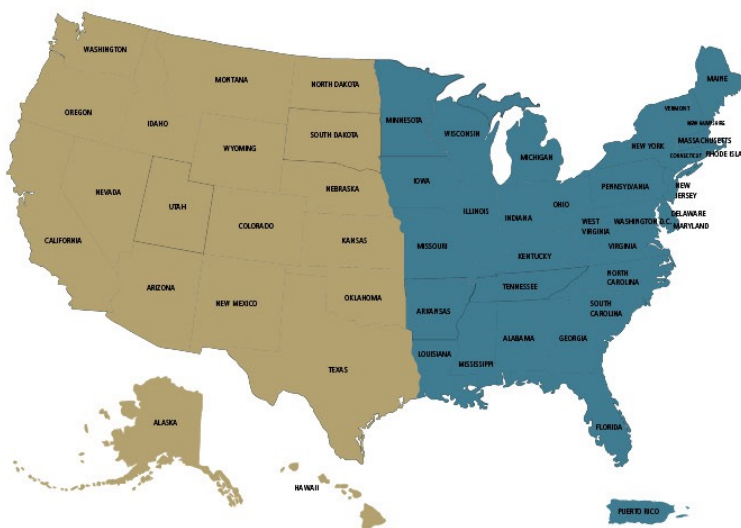
### Carter George

Sales Associate  
646.799.3190 | [cgeorge@sprottusa.com](mailto:cgeorge@sprottusa.com)

● **Sergio Lujan** (Eastern Region & Canada)  
Senior Investment Consultant  
416.945.6223 | [slujan@sprott.com](mailto:slujan@sprott.com)

### Charlotte Hinrichs

Sales Associate  
917.581.3901 | [chinrichs@sprottusa.com](mailto:chinrichs@sprottusa.com)



# Distributor Contact Details

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**ALPS Distributors, Inc.**  
1290 Broadway, Suite 1000  
Denver, CO 80203





# Risk Disclosures and Other Important Information

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## **Sprott Uranium Miners ETF (NYSE Arca: URNM)**

This material must be preceded or accompanied by a prospectus. An investor should consider the investment objectives, risks, charges, and expenses carefully before investing. To obtain a Sprott Uranium Miners ETF Statutory Prospectus, which contains this and other information, visit <https://sprottets.com/urnm/prospectus>, contact your financial professional or call 888.622.1813. Read the Prospectus carefully before investing.

**The Fund is not suitable for all investors. There are risks involved with investing in ETFs including the loss of money. The Fund is considered non-diversified and can invest a greater portion of assets in securities of individual issuers than a diversified fund. As a result, changes in the market value of a single investment could cause greater fluctuations in share price than would occur in a diversified fund.**

The Fund's investments will be concentrated in the uranium industry. As a result, the Fund will be sensitive to changes in, and its performance will depend to a greater extent on, the overall condition of the uranium industry. Also, uranium companies may be significantly subject to the effects of competitive pressures in the uranium business and the price of uranium. The price of uranium may be affected by changes in inflation rates, interest rates, monetary policy, economic conditions and political stability. The price of uranium may fluctuate substantially over short periods of time, therefore the Fund's share price may be more volatile than other types of investments. In addition, they may also be significantly affected by import controls, worldwide competition, liability for environmental damage, depletion of resources, mandated expenditures for safety and pollution control devices, political and economic conditions in uranium producing and consuming countries, and uranium production levels and costs of production. Demand for nuclear energy may face considerable risk as a result of, among other risks, incidents and accidents, breaches of security, ill-intentioned acts of terrorism, air crashes, natural disasters, equipment malfunctions or mishandling in storage, handling, transportation, treatment or conditioning of substances and nuclear materials.

**Shares are not individually redeemable. Investors buy and sell shares of the Sprott Uranium Miners ETF on a secondary market. Only market makers or "authorized participants" may trade directly with the Fund, typically in blocks of 10,000 shares.**

Funds that emphasize investments in small/mid-capitalization companies will generally experience greater price volatility. Funds investing in foreign and emerging markets will also generally experience greater price volatility. Diversification does not eliminate the risk of experiencing investment losses. ETFs are considered to have continuous liquidity because they allow for an individual to trade throughout the day.

A higher portfolio turnover rate may indicate higher transaction costs and may result in higher taxes when Fund shares are held in a taxable account. These costs, which are not reflected in annual Fund operating expenses, affect the Fund's performance.

Sprott Asset Management USA, Inc. is the Investment Adviser to the Sprott Uranium Miners ETF.

**ALPS Distributors, Inc. is the Distributor for the Sprott Uranium Miners ETF and is a registered broker-dealer and FINRA Member. ALPS Distributors, Inc. is not affiliated with Sprott Asset Management USA, Inc.**

# Risk Disclosures and Other Important Information

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# Appendix A

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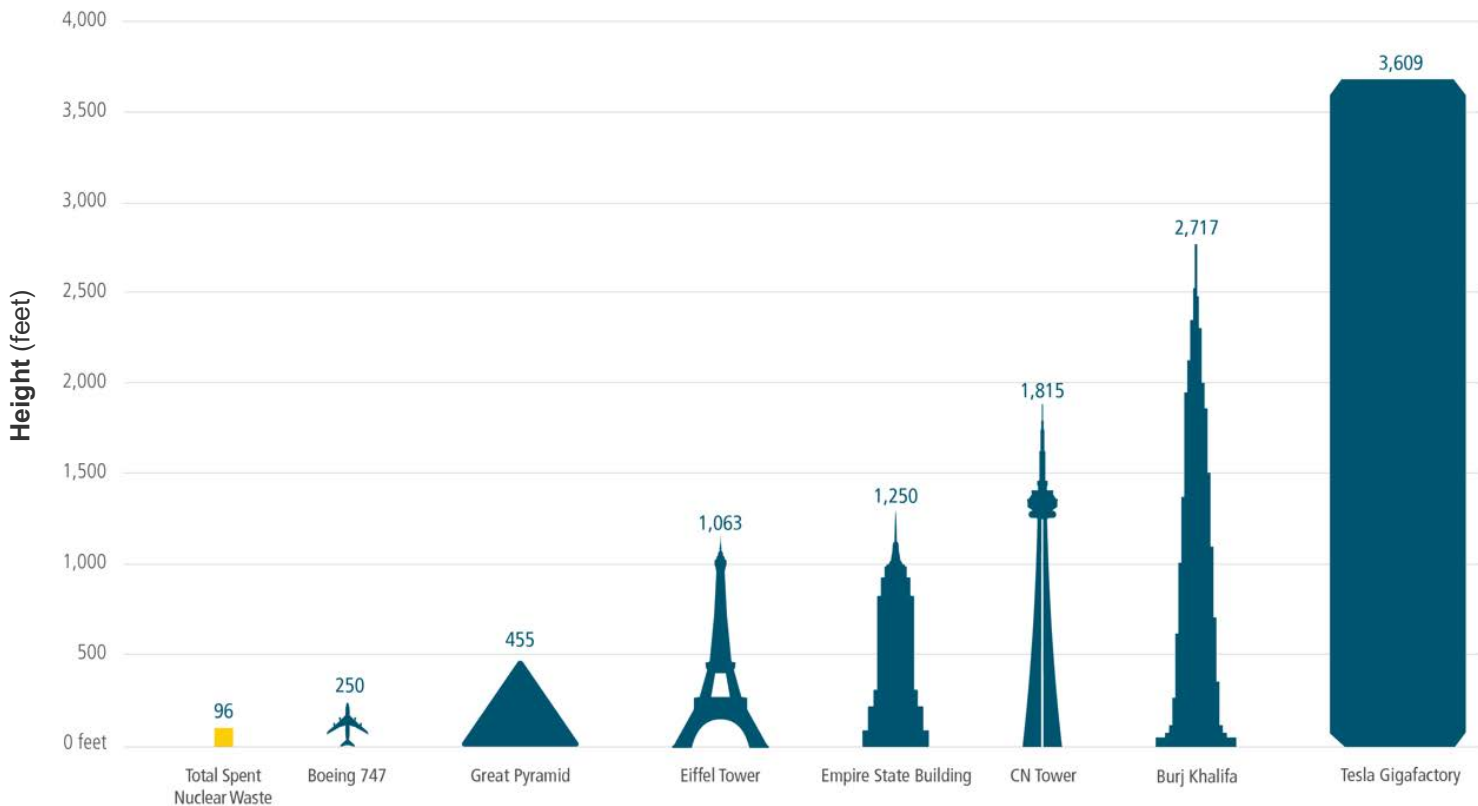
# Uranium Life Cycle

The holdings of the Sprott Uranium Miners ETF will generally be involved in the exploration, mining, refining and storage of uranium.



# Total Spent Nuclear Waste

- If all the nuclear waste from commercial reactors, a 63-year operating history, was stored in a cube it would measure just 96 feet per side.
- Nuclear waste produces the smallest amount generated by any source of energy when considered on an “all-in” basis.



Source: NukeReport. Nuclear Asia as of 10/30/2020.