



Good Energy for Generations

Corporate Presentation | July 2026

Forward Looking Statements

Information Contained in this Presentation

This presentation and any oral statements made in connection with this presentation collectively constitute a summary description of NexGen Energy Ltd. (“NexGen” or the “Company”) and its business and do not purport to be complete. The information is not, and in no circumstances is to be construed as, a prospectus, advertisement or public offering of securities. No securities regulatory authority or similar authority has reviewed or in any way passed upon this presentation or the merits of the Company’s securities, and any representation to the contrary is an offence. Except where otherwise indicated, the information has been prepared by NexGen and there is no representation or warranty by NexGen or any other person as to the accuracy or completeness of the information. Except as otherwise stated, the information is given as of the date hereof. The delivery of the information shall not imply that the information is correct as of any date after the date hereof.

Forward-Looking Information

The information contains “forward-looking statements” within the meaning of applicable United States securities laws and regulations and “forward-looking information” within the meaning of applicable Canadian securities legislation (collectively, “forward-looking information”). Forward-looking information includes, but is not limited to, statements and information with respect to mineral reserve and mineral resource estimates, the 2021 Arrow Deposit, the Rook I Project, estimates of NexGen’s uranium production, grade, recoveries, capital costs, operating costs, sustaining capital, royalties, taxes, payback, free cash flow, net present value, internal rate of return, sensitivities, expected project economics, interim cost trends, cost escalation, cost-mix information, returns on NexGen’s uranium production, long-term average uranium prices, uranium price assumptions, foreign exchange assumptions, inflation assumptions, anticipated effects of completed drill results on the Rook I Project, planned work programs and development activities and budgets, Canadian Nuclear Safety Commission and other approvals, completion of further site investigations and engineering work to support basic engineering of the project and expected outcomes, the supply and demand of uranium, global nuclear generating capacity, market conditions, NexGen’s financial position, financing plans, construction, commissioning, operations and development timelines. Generally, but not always, forward-looking information can be identified by the use of words such as “plans”, “expects”, “is expected”, “budget”, “scheduled”, “estimates”, “forecasts”, “intends”, “anticipates”, “believes”, “projects”, “targets”, “assumes”, “potential”, “could”, “may”, “would”, “should” or “will”, or the negative connotation of such terms, variations of such words and phrases or statements that certain actions, events or results may, could, would, should or will be taken, occur or be achieved. Statements relating to mineral resources are deemed to be forward-looking information, as they involve the implied assessment that, based on certain estimates and assumptions, the mineral resources described can be profitably produced in the future.

Forward-looking information is based on the then-current expectations, beliefs, assumptions, estimates and forecasts of NexGen and its management about NexGen’s business and the industry and markets in which it operates. Forward-looking information is made based upon numerous assumptions, including, among others, that the mineral reserve and mineral resource estimates and the key assumptions and parameters on which such estimates are based are as set out in this presentation and the technical report for the property; that the results of planned exploration activities are as anticipated; that uranium prices, exchange rates, inflation, capital costs, operating costs, sustaining capital, labour, equipment, materials, energy, reagents, transportation, taxes, royalties, closure costs and other project inputs will be consistent with the assumptions used in the applicable estimates, forecasts, projections and sensitivities; that financing will be available if and when needed and on reasonable terms; that third-party contractors, equipment, supplies and governmental, regulatory, Indigenous and other approvals required to conduct NexGen’s planned activities and advance the Rook I Project will be available on reasonable terms and in a timely manner; that development, construction, commissioning and operating timelines will proceed as currently expected; and that general business and economic conditions will not change in a material adverse manner. Although the assumptions made by the Company in providing forward-looking information are considered reasonable by management at the time, there can be no assurance that such assumptions will prove to be accurate in the future.

Forward-looking information also involves known and unknown risks, uncertainties and other factors which may cause actual results, performance or achievements of NexGen to differ materially from any projections of results, performance or achievements expressed or implied by such forward-looking information, including, among others, the existence of negative operating cash flow and dependence on third-party financing; uncertainty of the availability of additional financing; the risk that pending assay results will not confirm previously announced preliminary results; conclusions of economic valuations; the risk that actual results of exploration activities will be different than anticipated; the risk that capital costs, operating costs, sustaining capital, closure costs, labour, equipment, materials, energy, reagents, transportation, taxes, royalties or other project inputs will increase more than expected;

the risk that future uranium prices will decline or otherwise not rise to an economic level; the appeal of alternate sources of energy to uranium-produced energy; the risk that exchange rates, including the Canadian dollar/U.S. dollar exchange rate, will differ from assumptions; the risk that mineral resources and mineral reserves are not as estimated; the risk that actual costs or actual results of reclamation activities are greater than expected; the risk that changes in project parameters and plans continue to be refined and may result in increased costs or changes to expected project economics; unexpected variations in mineral resources and mineral reserves, grade or recovery rates; risks generally associated with mining, development, construction, commissioning and operations; unanticipated delays in obtaining governmental, regulatory or First Nations approvals; risks related to First Nations title and consultation; reliance upon key management and other personnel; deficiencies in the Company’s title to its properties; uninsurable risks; failure to manage conflicts of interest; failure to obtain or maintain required permits and licences; risks related to changes in laws, regulations, policy and public perception; and those factors and other risks more fully described in NexGen’s Annual Information Form dated March 3, 2026 filed with the securities commissions of all provinces and territories of Canada and in NexGen’s Form 40-F filed with the United States Securities and Exchange Commission, which are available on SEDAR+ at www.sedarplus.ca and EDGAR at www.sec.gov.

The information may refer to the internally prepared interim trend report for cost sensitivities for the Rook I Project described in the Company’s MD&A as the “Interim Trend Update”, including selected sensitivities, illustrative scenarios, management estimates, interim cost trend information or other analyses. References to the Interim Trend Update and related sensitivities are provided for illustrative sensitivity purposes only and should not be interpreted as replacing, amending or updating the Rook I FS Technical Report, or as representing a new or revised life-of-mine plan or base case, an updated capital cost estimate or an updated economic analysis. Such information is subject to the assumptions, risks and uncertainties described in this presentation and in the Company’s public disclosure.

Although the Company has attempted to identify important factors that could cause actual results to differ materially from those contained in or implied by forward-looking information, there may be other factors that cause results not to be as anticipated, estimated or intended. You are cautioned not to place undue reliance on forward-looking information due to the inherent uncertainty thereof. There can be no assurance that forward-looking information will prove to be accurate, as actual results and future events could differ materially from those anticipated, estimated or intended. Accordingly, readers should not place undue reliance on forward-looking information. The Company undertakes no obligation to update or reissue forward-looking information as a result of new information or events except as required by applicable securities laws.

Mineral Reserves and Mineral Resources

This presentation includes Mineral Reserve and Mineral Resource classification terms that comply with reporting standards in Canada, and the Mineral Reserve and Mineral Resource estimates are made in accordance with NI 43-101. NI 43-101 is a rule developed by the Canadian Securities Administrators that establishes standards for all public disclosure an issuer makes of scientific and technical information concerning mineral projects. These standards differ from the requirements of the United States Securities and Exchange Commission (“SEC”) applicable to domestic United States reporting companies. Consequently, Mineral Reserve and Mineral Resource information included in this presentation may not be comparable to similar information disclosed by domestic United States reporting companies subject to SEC reporting and disclosure requirements. Accordingly, information concerning mineral deposits set forth herein may not be comparable with information made public by companies that report in accordance with United States standards.

All material scientific and technical information in this presentation is derived from the Company’s independent feasibility study entitled “Arrow Deposit, Rook I Project, Saskatchewan, NI 43-101 Technical Report on Feasibility Study” dated March 10, 2021 (the “Rook I FS Technical Report” or the “FS”), filed under the Company’s profile on SEDAR+ at www.sedarplus.ca and on EDGAR at www.sec.gov. For details of the Rook I Project, including the key assumptions, parameters and methods used to estimate the Mineral Reserves and Mineral Resources described in this presentation, please refer to the Rook I FS Technical Report.

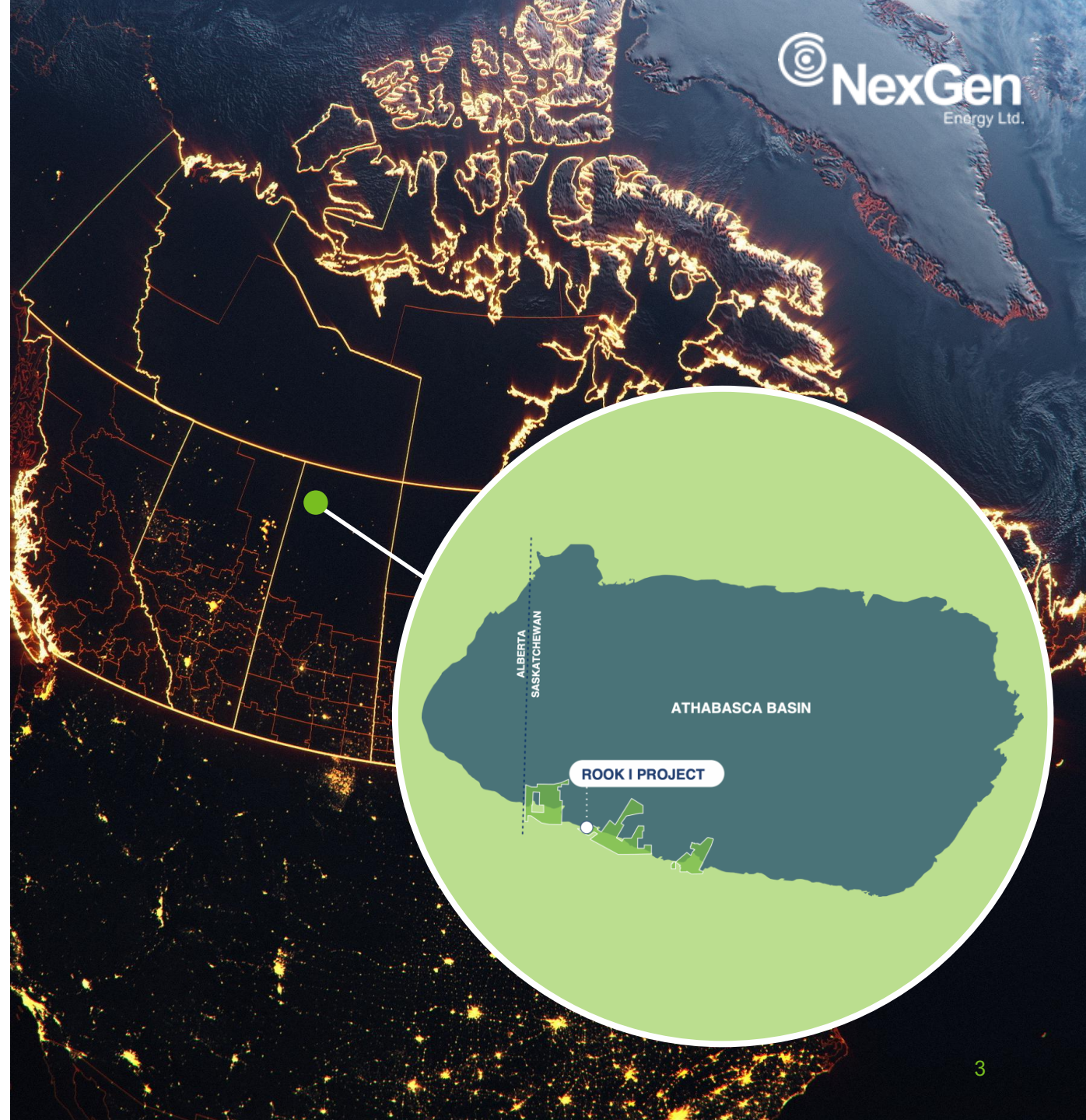
All scientific and technical information in this presentation has been reviewed and approved by Mr. Simon Allard, P.Eng., Vice President, Commercial, and Mr. Jason Craven, P.Geo., Vice President, Exploration for NexGen. Mr. Allard approved the scientific and technical information related to operational matters contained in this presentation and Mr. Craven approved the scientific and technical information related to exploration matters contained in this presentation. Each of Mr. Allard and Mr. Craven is a qualified person for the purposes of NI 43-101. chnical information related to exploration matters. Each of Mr. Allard and Mr. Craven is a qualified person for the purposes of NI 43-101.

NexGen is advancing the world's **highest-grade, large scale uranium project** through its 100% owned Rook I Project.

Positioned to deliver **~20% of global supply**¹ from a single, sustainable and compact mine in the southwestern Athabasca Basin in Saskatchewan, Canada².

¹ Based on calculation of Rook I potential production from the 2021 FS and Centre for International Economics modeling.

² The current mine plan and economics remain those in the 2021 Feasibility Study





The World's Most Strategic Uranium Asset

Irreplaceable, Strategic and Future Defining



World Class Project

Conventional hard-rock mining with ultra-high grades, delivering up to **30 million lbs annually** with expansion potential and robust after-tax cash flow ^{1,3}. **Re-establishing Canada as the top uranium fuel jurisdiction.**



Leveraged to Rising Prices

Market-related contracting strategy optimizing exposure to future uranium pricing. To date, **10 million lbs sales commitments with major utilities have been awarded** ².



Licensed to Construct

Received approval by CNSC to construct the Rook I Project on March 5, 2026. **Under construction.**



Decades of Relevant Experience

Proven leadership team that has built, financed and operated globally significant mining projects.



Nuclear Market Tailwinds

Expected to come online when demand surges, legacy supply dwindles, and structural deficit drives long-term prices higher ⁴.



Local Support

Formal Indigenous community support through industry-leading Benefit Agreements in Rook I's Local Priority Area ⁵.

¹ Statements regarding future cash flows of the Rook I Project are subject to the various risks and assumptions as outlined in the Company's AIF, and those further described under the heading "Forward Looking Information" of this Presentation.

² Refer to August 6, 2025 Press Release for more information.

³ Refer to Rook I Feasibility Study Technical Report.

⁴ As per the WNA- World Nuclear Fuel Report 2025 – Upper Case Scenario modeling.

⁵ Refer to NexGen's most recent Management Discussion and Analysis ("MD&A").

Nuclear Is Booming. AI Will Supercharge Demand

Uranium's Moment

80 reactors are currently under construction worldwide adding over 70 gigawatts (GW) of new capacity¹ - **a ~20% increase in global nuclear capacity by the early 2030's.**

That's just the start.

With 38 countries pledging to triple nuclear capacity by 2050², from 380 GW to 1,200 GW, this **adds 800 GW of new power.**

Meanwhile, AI-driven power demand is only beginning. If the U.S alone were to power it's AI buildout entirely with nuclear, demand would reach up to **60 million lbs of uranium** per year by 2030³.

The nuclear era is upon us. Got uranium?



80

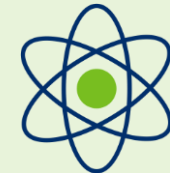
Nuclear reactors currently under construction



Adding:

>80 GW

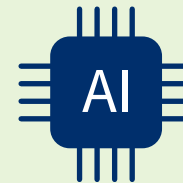
Of clean baseload energy by 2030



Requires:

~30 - 36 million lbs

U₃O₈



AI surge could add an additional:

60 million lbs

U₃O₈ if U.S. AI-demand is fully powered by nuclear

¹ IEA January 2025 - The Path to a New Era for Nuclear Energy

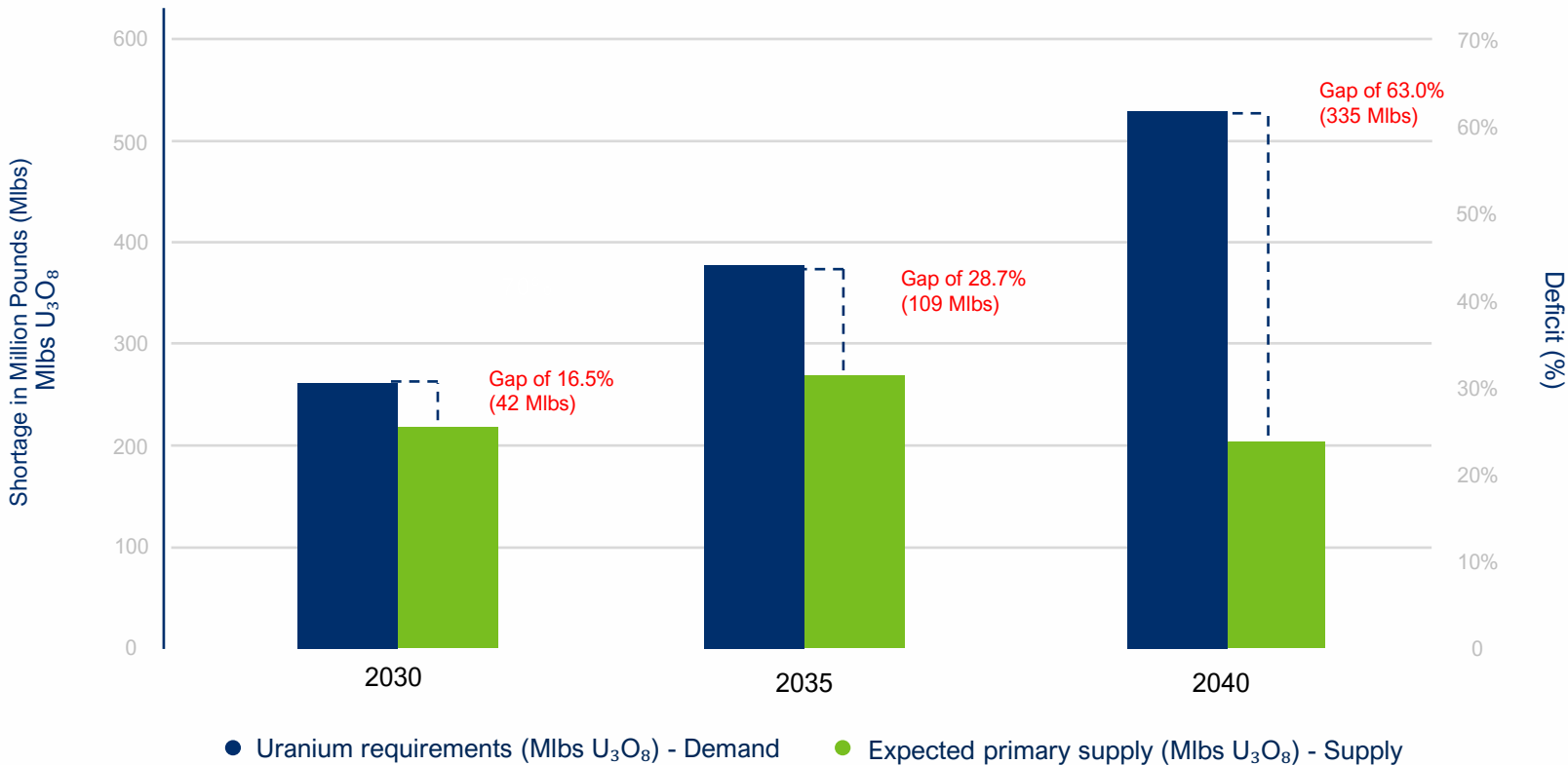
² WNA World Nuclear Fuel Report 2025 – September 5, 2025

³ McKinsey & Co, August 2025 - Scaling bigger, faster, cheaper data centers with smarter designs

Supply Can't Keep Up

Uranium's Moment

A Widening Uranium Supply Gap (Upper Scenario)¹



¹ World Nuclear Association (WNA), The Nuclear Fuel Report (September 2025 edition), Section 5.7 "Uranium supply and demand" — Figures 5.11–5.13 and Table 5.13 (Upper Scenario).

By 2040, primary uranium **deficit** is projected to reach

335 Mlbs per year¹

Meeting forecasted 2040 demand of ~530 Mlbs will require mine supply to more than triple from today's levels.



Uranium demand is surging and structurally inelastic.



A typical 15 - 20 year timeline from mine discovery to production, means supply cannot respond fast enough.

Higher prices - for longer - are essential to incentivize new production

Why Prices Alone Can't Fix A 20-year Problem

Uranium's Moment

SUPPLY CONSTRAINED TODAY AND NEXT DECADE¹

PRICE HAS NOT TRIGGERED A SUPPLY RESPONSE²

Mine development is a 20-year journey from discovery to production:



<5
PROJECTS APPROVED
since 2011

2040s
EARLIEST NEW DISCOVERED SUPPLY
comes online

\$17
/lb uranium
~2000 low

~4x
price
increase

\$85
/lb uranium
today

140M
/lb mined supply
~2011

~14%
Supply response at
midpoint

~160M
/lb mined supply
today

Last major mines came online in 2014 (Cigar) & 2016 (Husab):

Price signals sent today won't deliver new supply until the 2040s. The market has no choice but to pay higher prices throughout this entire period.

Despite a 4x price increase, global uranium supply grew just ~14% over 13 years.

The industry runs on 20-year timelines, not quarterly price cycles. By 2040, the world needs 335M lbs/yr. The gap cannot close without higher, sustained prices.

¹ World Nuclear Association, The Nuclear Fuel Report (published September 2025, Reference Scenario) – for uranium requirements

² UxC, LLC – Uranium Market Outlook (UMO) (2025–2026)

Critical Supply, Foreign Reliance

Uranium's Moment

OECD*: 70% Demand¹, Only 25% Supply²

70% of demand relies on foreign, state-backed sources.

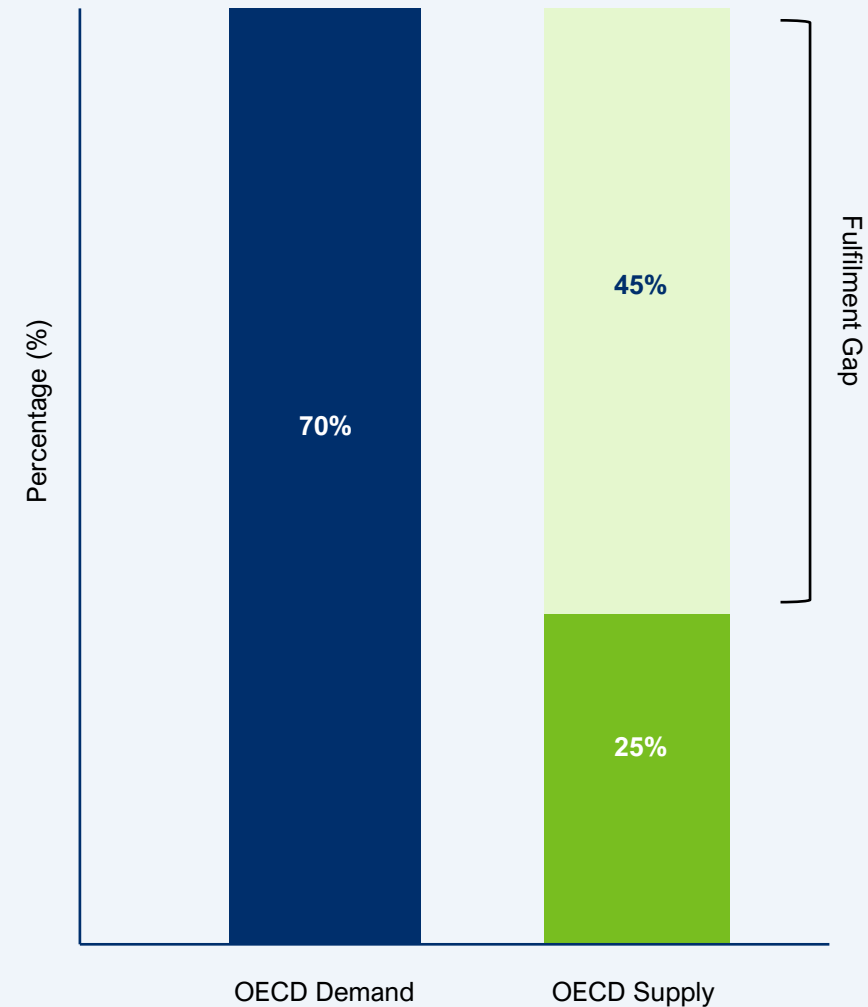
>90% of Western supply tied to long-term contracts below market pricing.

<1% Domestic production from the US, UK, and Europe.
90 million lbs+ imported annually, mostly from state-sponsored entities.

Rook I is the critical component through to 2040 and beyond

diversifying global supply away from geopolitically risky sources but
...more new supply is urgently needed.

Opportunity to Fill the Gap



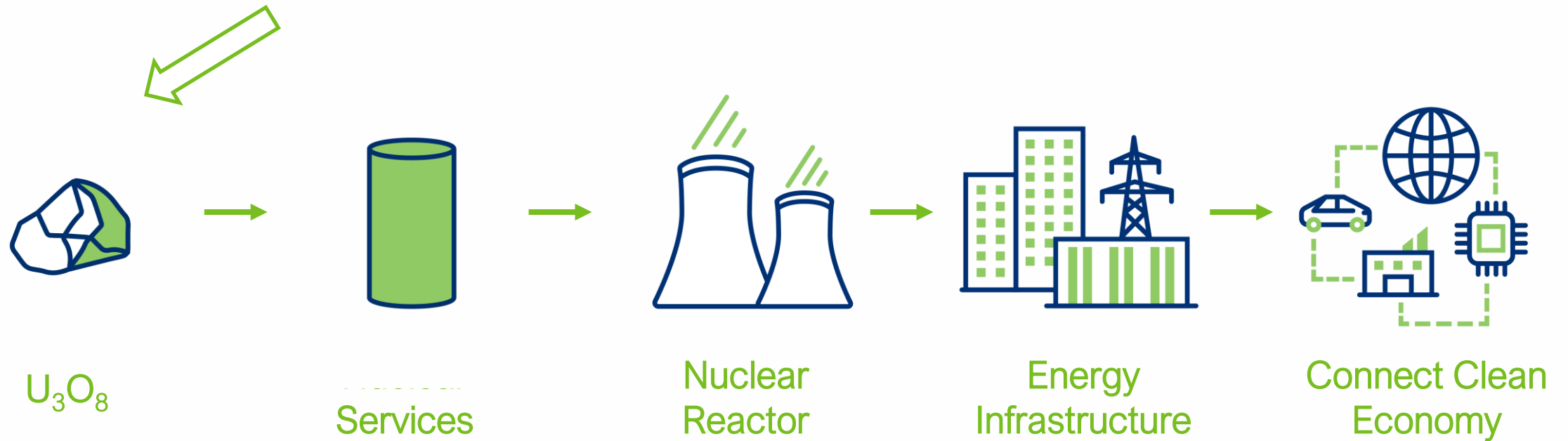
¹ OECD (Organisation for Economic Co-operation and Development) Uranium 2022, Resources, Production, Demand

² WNA - World Nuclear Fuel Report 2023 – Upper Case scenario

Fuel is the Bottleneck

Uranium's Moment

The key driver, and limiting factor of industrial growth is the fuel itself (U_3O_8)



The Unrivaled Arrow Deposit

NexGen's Rook I Project

Grade and geology make this one of the most robust, economically resilient deposits in the world.

- Reserves grade 2.37% for 239.6 million lbs. Over 65%¹ of Measured & Indicated resource at 15.9% U_3O_8 , 160x the global average^{2,3}
- Simple, predictable structure allows for conventional, safe, and efficient mining³
- Hard rock conditions allow for underground tailings storage which reduce surface tailings exposure to near zero³

Reserves and resources:

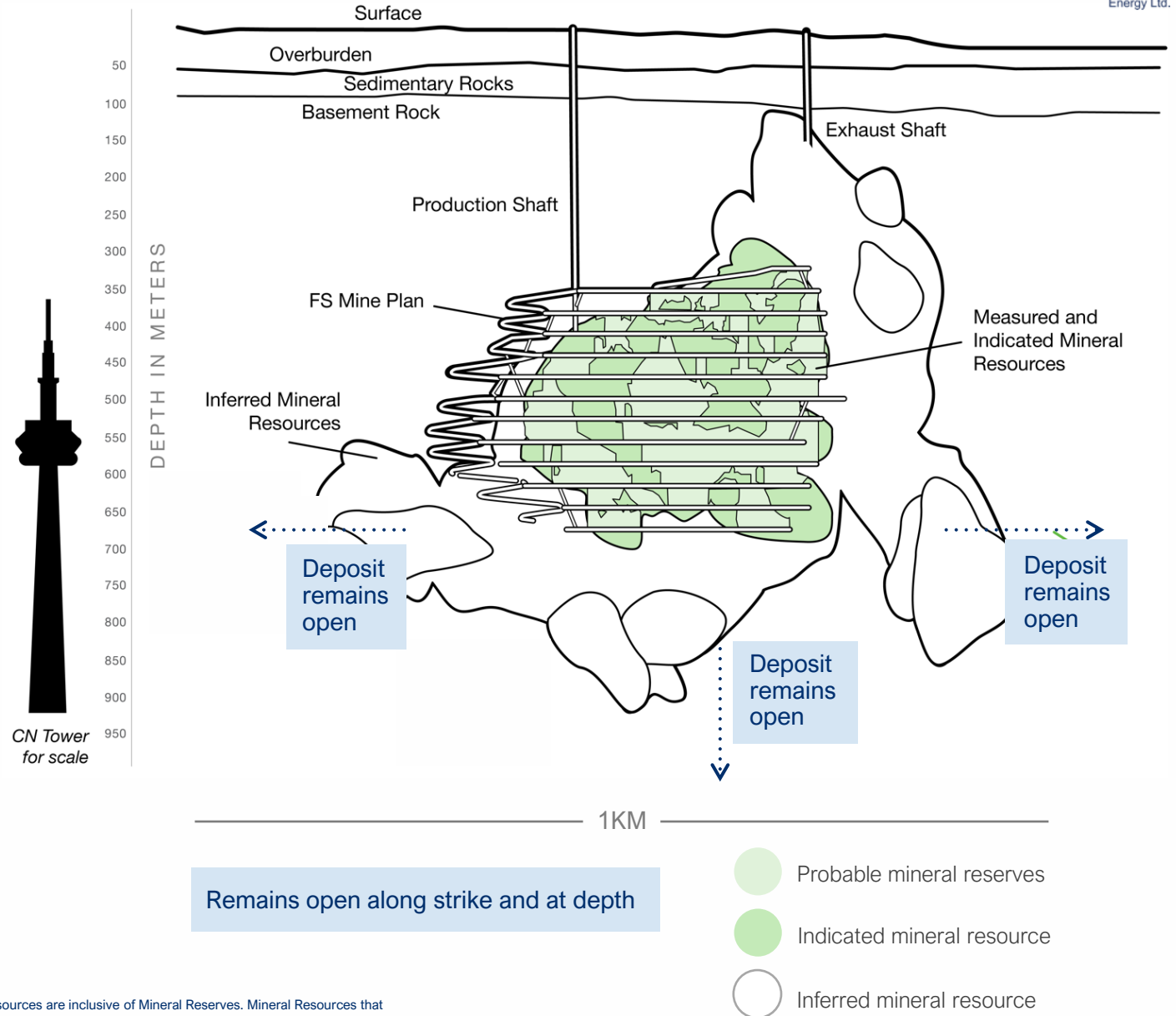
Economics based on probable reserves of 239.6 Mlbs as outlined in the 2021 Feasibility Study.

Total Measured & Indicated resource of 256.7 Mlbs (inclusive of reserves) and Inferred resource of another 80.7 Mlbs³.

¹ Additional details regarding Mineral Reserves and Mineral Resources can be found in the FS and the Appendix of this presentation. Mineral Resources are inclusive of Mineral Reserves. Mineral Resources that are not Mineral Reserves do not have demonstrated economic viability.

² WNA – Uranium Mining Overview. September 25, 2025

³ Rook I Feasibility Study, 2021



Fully Licensed to Construct

Regulatory Landscape



Major construction has
already commenced.

Sept – 2023

Federal License
Application Deemed Sufficient

Nov – 2023

Provincial Environmental
Assessment Approved

Nov – 2024

Federal Technical Review Complete

Nov 19 – 2025

CNSC Hearing (Part 1)

Feb 9 -13 – 2026

CNSC Hearing (Part 2)

Mar 5 – 2026

Final Federal Approval Granted

CURRENT STATUS

Summer 2026

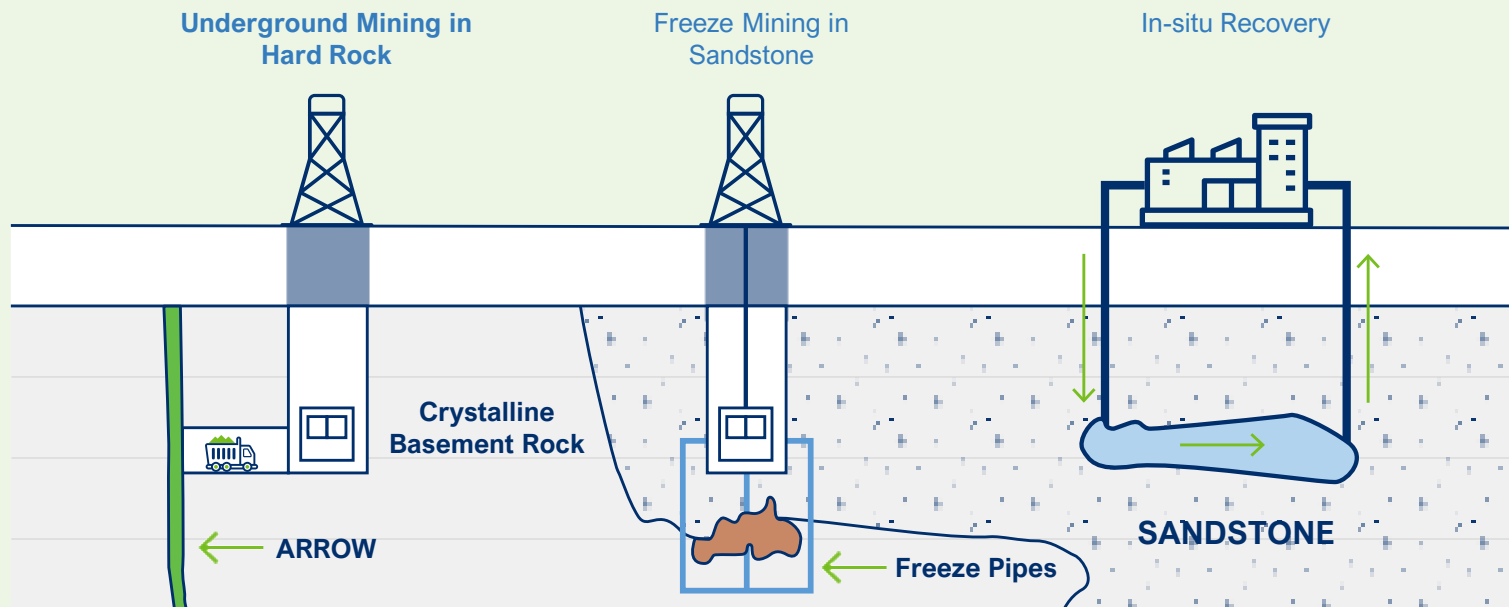
Major Construction Begins

Conventional Mining: Arrow's Unique Advantage

Uranium Mining Methods

Uranium can be mined using several methods, dependent on the deposit's geology and grade.

Arrow's geology is rare in uranium mining, more analogous to high-grade underground gold in hard rock than typical uranium deposits. And that's a good thing. The depth, hard rock setting, and exceptionally high grades¹ **provide ideal conditions for conventional underground mining, resulting in low operating costs.**



¹ Additional details regarding the geological setting and mining methods within Arrow can be found in the 2021 Rook I FS.

Open Pit Mining

- Near-surface ore, large-scale surface digging
- Typically, **low grade** <0.5% U_3O_8
- ~20% of global production uses this method
- Environmentally disruptive and difficult to control

Underground Mining in Hard Rock

- Competent, hard rock with minimal hydraulic activity
- Shafts and tunnels to access ore, and higher recovery rates
- Well understood, commonly used method for hard rock mines
- **Provides unique production flexibility optionality**

Arrow's Mining Method

Freeze Mining in Sandstone

- Water-saturated, unstable formations that are technically complex
- Requires continuous ground freezing years in advance
- Complex geotechnical and metallurgical characteristics
- ~20% of global uranium production use this method

In-Situ Recovery

- Soft, wet rock (e.g., sandstone aquifers)
- **Very low-grade mines** <0.3% U_3O_8
- Complex metallurgy and recovery rate consistency
- ~60% of global uranium production use this method

Path to Becoming a Top 10 World Mining Company

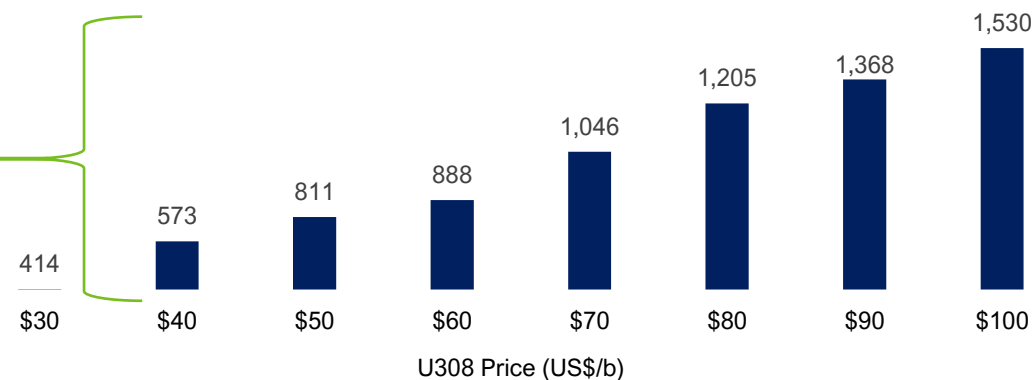
Growth

Mining Companies Ranked by 2025A FCF (Excl. Precious Metals and Steel Companies)¹

Rank	Company Name	2025A FCF (US\$M)	# of Assets (#)	# of Regions (#)	Market Cap. (US\$B)	Enterprise Value (US\$B)
1	BHP Group	\$10,184	57	9	\$209.1	\$228.6
2	Rio Tinto	\$4,497	51	10	\$163.1	\$214.6
3	Glencore	\$5,138	109	18	\$80.0	\$115.5
4	Fortescue Metals	\$3,120	12	3	\$40.8	\$41.8
5	Vale	\$4,785	57	6	\$66.7	\$78.7
6	Southern Copper	\$3,382	34	4	\$145.3	\$146.7
7	Anglo American	\$2,189	25	9	\$57.8	\$70.6
8	Freeport-McMoRan	\$1,116	23	6	\$90.4	\$109.2
9	Lundin Mining	\$658	8	3	\$20.8	\$22.2
10	First Quantum	\$512	14	7	\$22.7	\$29.5

NexGen:
1 Asset
1 Region

Avg Annual After-Tax FCF (Y1 -5) (US\$M)



¹ FactSet, CapIQ. Peer FCF represents 2025A Operating Cash Flow less CAPEX (calendarized) as reported by FactSet; screen excludes precious metals and steel producers and companies solely listed on the Moscow Exchange. Active mining properties and jurisdictions from CapIQ. Peer market capitalization and enterprise value (as reported by FactSet) are as of June 30, 2026; currency figures presented in US\$ with conversions at FactSet spot rates as of that date. NexGen basis: NexGen's projected after-tax FCF figures are non-GAAP measures and are derived from the 2021 Feasibility Study base case (US\$50/lb U₃O₈), with sensitivity prices shown based on the August 2024 Interim Trend Update. Comparability and assumptions: Peer figures may not be directly comparable due to differences in definitions, accounting policies, tax regimes, sustaining vs. growth capital treatment, and timing; NexGen's after-tax FCF should not be considered in isolation or as a substitute for IFRS measures. Sensitivities are illustrative only and do not represent forecasts of uranium prices or prices at which uranium produced from the Rook I Project can be sold. Forward-looking information and risks: This slide contains forward-looking information subject to risks and uncertainties – including uranium price and FX assumptions, permitting and regulatory approvals, construction execution, financing availability and terms, supply chain and inflationary pressures, and broader market conditions. Actual results may differ materially; see "Forward-Looking Statements" in this presentation. Prospective investors should avoid undue reliance on sensitivity analyses or forward-looking information; NXE Market cap as of June 30, 2026.

Our Impact*

Rook I Project Benefits



Fueling enough carbon-free energy to power up to **46 million homes**

That's approximately **1/3** of all the homes in the U.S.¹



Removing the equivalent of nearly **~70 million cars** off the road each year¹



Displaces more than **300,000,000 tonnes** of CO₂ annually¹

¹ WNA 2021, IAEA, IEA, EIA, WNA as cited by Canadian Nuclear Association, EPA, and Internal NXE calculations 2022-4
*Annual impact metrics (e.g., cars off the road, CO₂ displaced, homes powered) are calculated based on the Rook I Feasibility Study production schedule – approximately 30 million lbs U₃O₈ per year, Years 1–5, as outlined in the 2021 FS. These figures are illustrative only, do not imply any increase to reserves or extension of mine life, are subject to permitting, financing, operating performance, and market conditions, and do not include construction-phase impacts.

Low Material Movement, High-Value Output

Competitive Advantage

High-grade ore enables just 3 trucks per day to feed the mill* - compared to hundreds or thousands at typical mining operations. And just 1.5 trucks leaving site - dramatically reducing infrastructure and environmental impact.



*Based on maximum licensed capacity and 450 tonne trucks

Leveraged to Rising Uranium Prices - By Design

Future Forward Sales Strategy

Applying a simple strategy which reflects the geological hard rock setting of Arrow:

Maximize profitability (price) per lb sold by aligning sales with market demand.

NexGen contracting strategy is designed to capture rising prices.

Pricing is secured via **volume-based contracts with delivery-time market pricing mechanisms**¹.

Low OPEX provides natural downside protection. While contract structure applies leverage to future uranium prices.

Total sales commitments for **10 million lbs at market-related pricing**, with **annual deliveries of 2 million lbs**, all scheduled from commercial production.

Realized Weighted Volume Average Price for the first 3 sales commitments* Realized Table (excludes escalation):

Table based on initial sales commitments totalling 1 Mlbs U₃O₈ per annum over 5 years

Uranium Price (US\$/lbs.U ₃ O ₈)	2030	2031	2032	2033	2034
\$80	\$79	\$79	\$79	\$79	\$79
\$100	\$99	\$99	\$99	\$99	\$99
\$150	\$141	\$141	\$141	\$141	\$141
\$175	\$150	\$150	\$150	\$150	\$150

*Rounded to the nearest dollar, includes any applicable discounts, excludes ancillary commissions, and associated costs of delivery. It is intended for illustrative pricing outcomes under 5 million pounds of committed volumes, based on various assumed spot price scenarios. These outcomes exclude the Company's market-related pricing structure. **Table does not include the August 2025 contract of an additional 5 million pounds.** Refer to the December 4, 2024 Press Release for more information.

¹ Statements regarding future cash flows, production, sales, uranium price, and operating costs of the Rook I Project are subject to the various risks and assumptions as outlined in the Company's AIF, and those further described under the heading "Forward Looking Information" of this Presentation.
² Refer to August 6, 2025 Press Release for more information.

Full support from local Indigenous Nations

Local Partnership Driving Real Impact

Industry-leading Benefit Agreements signed with all four identified Local Priority Area Indigenous communities reflecting tremendous advocacy for the Project:

- ✓ Clearwater River Dene Nation
- ✓ Birch Narrows Dene Nation
- ✓ Buffalo River Dene Nation
- ✓ Métis Nation – Saskatchewan Northern Region II, in partnership with the Métis Nation – Saskatchewan

Indigenous-led partnership: NexGen partnered with Clearwater River Dene Nation and Métis Nation to develop a 59-room hotel in La Loche, creating 36 local jobs and supporting Rook I, with full community ownership at completion.

“Since as early as 2013, the Rook I Project has been a platform for both NexGen and the CRDN, together with regulatory authorities, to set a new and elite standard on Indigenous engagement, participation, and partnerships for projects in the traditional territory of Indigenous peoples.”

- Chief Teddy Clark, CRDN

“The Rook I Project is bringing once-in-a-lifetime opportunities and change to our Citizens in NRII. NexGen has shown leadership in the industry, by working with us, and recognizing our voice, and our people ... We applaud NexGen for its leadership, and its respectful, and collaborative approach, and we look forward to the development of the Rook I Project.”

- Leonard Montgrand, MN-S Regional Director for NRII

Investing in People

Competitive Advantage



500+

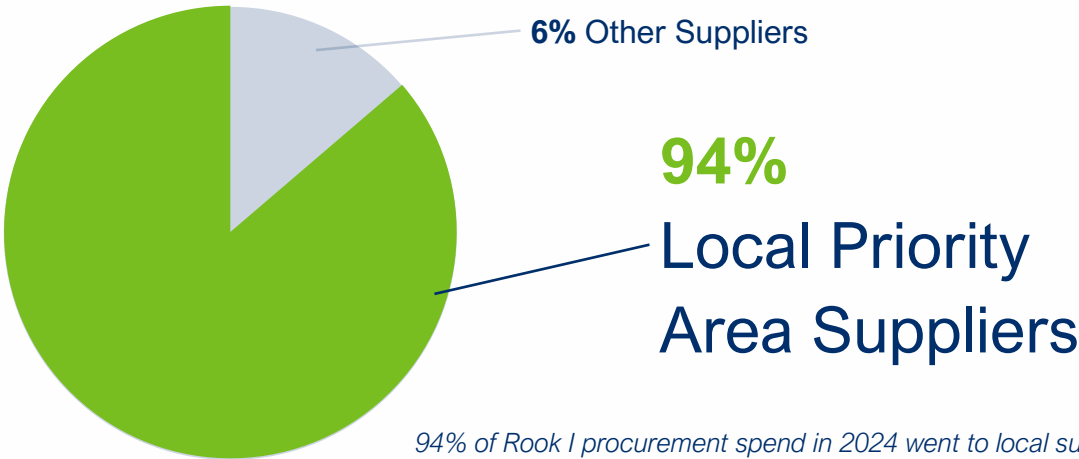
Local Priority Area (LPA) students have participated in Company-funded skills, certification, and professional development programs since 2023.

82%

Of NexGen's Rook I site employees in 2024 were from the LPA in northern Saskatchewan.

Located 150 km north of **La Loche and Clearwater River Dene Nation** (combined population 4,500+), the Rook I Project is integrating local talent by creating training programs, hiring locally and developing skillsets that extend beyond mining¹.

Rook I Procurement Spend in 2024



94% of Rook I procurement spend in 2024 went to local suppliers and Indigenous partnered businesses — totaling C\$56.6 million.

Educational Partners in Saskatchewan:



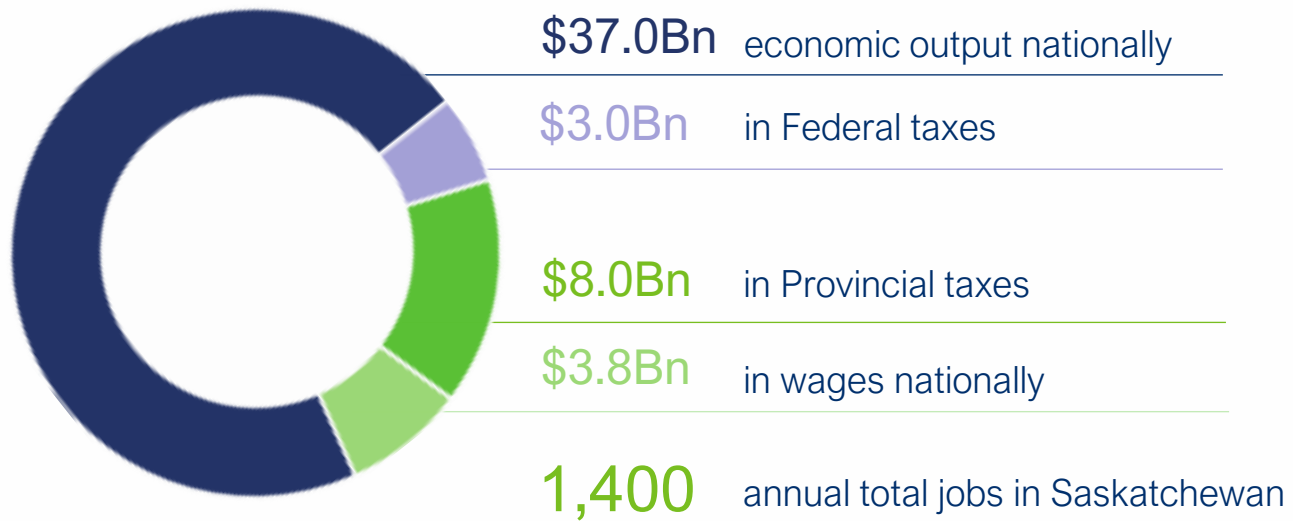
¹ NexGen 2024 Sustainability Report

\$37 Billion Economic Engine for Canada

A Nation Building Project

Total Economic Impact¹

Over Construction and the First 11 Years of Production (figures in C\$)



Supporting families, Indigenous employment, and local communities.

Fuels public infrastructure, services, and growth.

¹ EY's 2025 Economic Impact Study for NexGen – Rook I Project.

A generational
opportunity for Canadian
economic and clean
energy leadership.



Patterson Corridor East (PCE) Evolving High-Grade Discovery, 3.5 km East of Arrow

Growth

Multiple High-Grade Uranium Intercepts Confirm Expansion and Continuity of PCE High-Grade Subdomain¹

- PCE continues to exhibit extensive mineralization, with 79 of 115 holes mineralized, including 54 intersecting high-grade (>10,000 cps) and 21 off-scale hits (61,000 cps), indicating extremely high-grade uranium.
- 620m strike x 700m vertical extent of mineralized system².

Recent high-grade intercepts include:

- RK-25-232 - 15.0 m @ 15.9% U₃O₈ including an exceptional 0.5 m section of @ 68.8% - best discovery-phase intercept to-date
- RK-25-239 – 13.0 m @ 5.2% U₃O₈, including 0.5 m @ 30.2%
- RK-25-240 – 10.0 m @ 3.95% U₃O₈, including 0.5 m @ 33.3%
- RK-25-244 - 17.0 m @ 7.63% U₃O₈, including 6.0 m @ 21.1%
- RK-25-256 - 5.5 m @ 21.4% U₃O₈, including 2.5 m @ 46.1% with 0.5 m @ 74.8%

2026 Program:

- Planned 42,000 m, focused on expanding the high-grade footprint and testing additional prospective target areas

¹ Refer to the News Releases dated 7 May 2026, 22 April 2026, 15 Jan 2026, 29 July 2025, 27 May 2025 and 24 March 2025 and the Company's MD&A dated August 5, 2025 for the periods ended June 30, 2025 and filed under the Company's profile on SEDAR+ at sedarplus.ca, on EDGAR at www.sec.gov, and on the ASX at www.asx.com.au for the detailed spectrometer and assay results and other drilling details.

² These results are preliminary in nature and do not have demonstrated economic viability. No economic analysis has been completed, and any future resource or reserve estimates will require further drilling and technical evaluation. Geological similarities to the Arrow deposit are provided for context only. Such similarities are not indicative of mineralization, grade, tonnage, continuity, or economic potential elsewhere within the project.

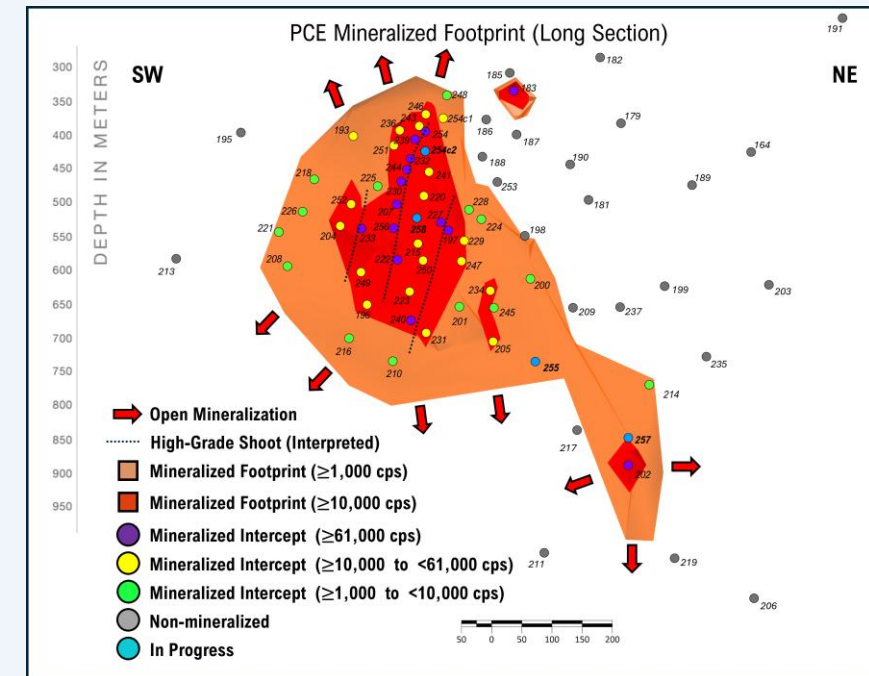


Figure 1: Interpreted 3D model of mineralization at PCE shown as a long section-oriented perpendicular to the primary mineralized plane; total mineralized footprint in orange and the high-grade subdomains in red.

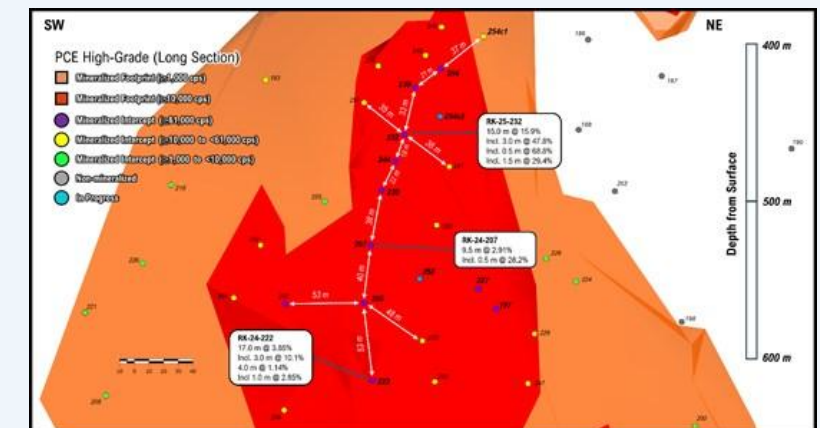
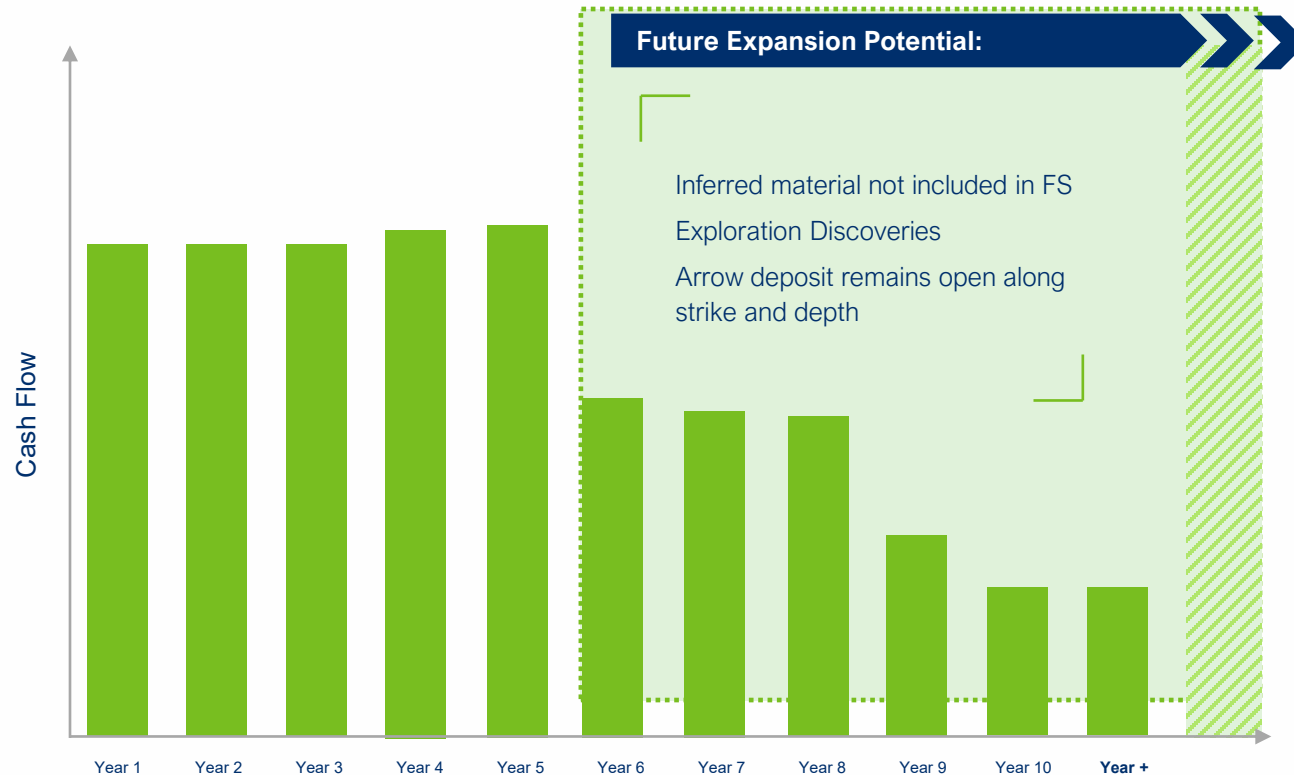


Figure 2: Close-up of long section view of PCE high-grade subdomain around RK-25-232 (15.0 m at 15.9% U₃O₈).

From Project to District

Growth



NexGen's land package has the potential to become its own uranium-rich district – **with Rook I as the foundation¹**.



Rook I is set to deliver strong after-tax net cash flow for years², with potential for resource expansion once in production³.



Over **150 exploration target areas** already identified across 27 key corridors on the substantial 190,000+ hectare land package.

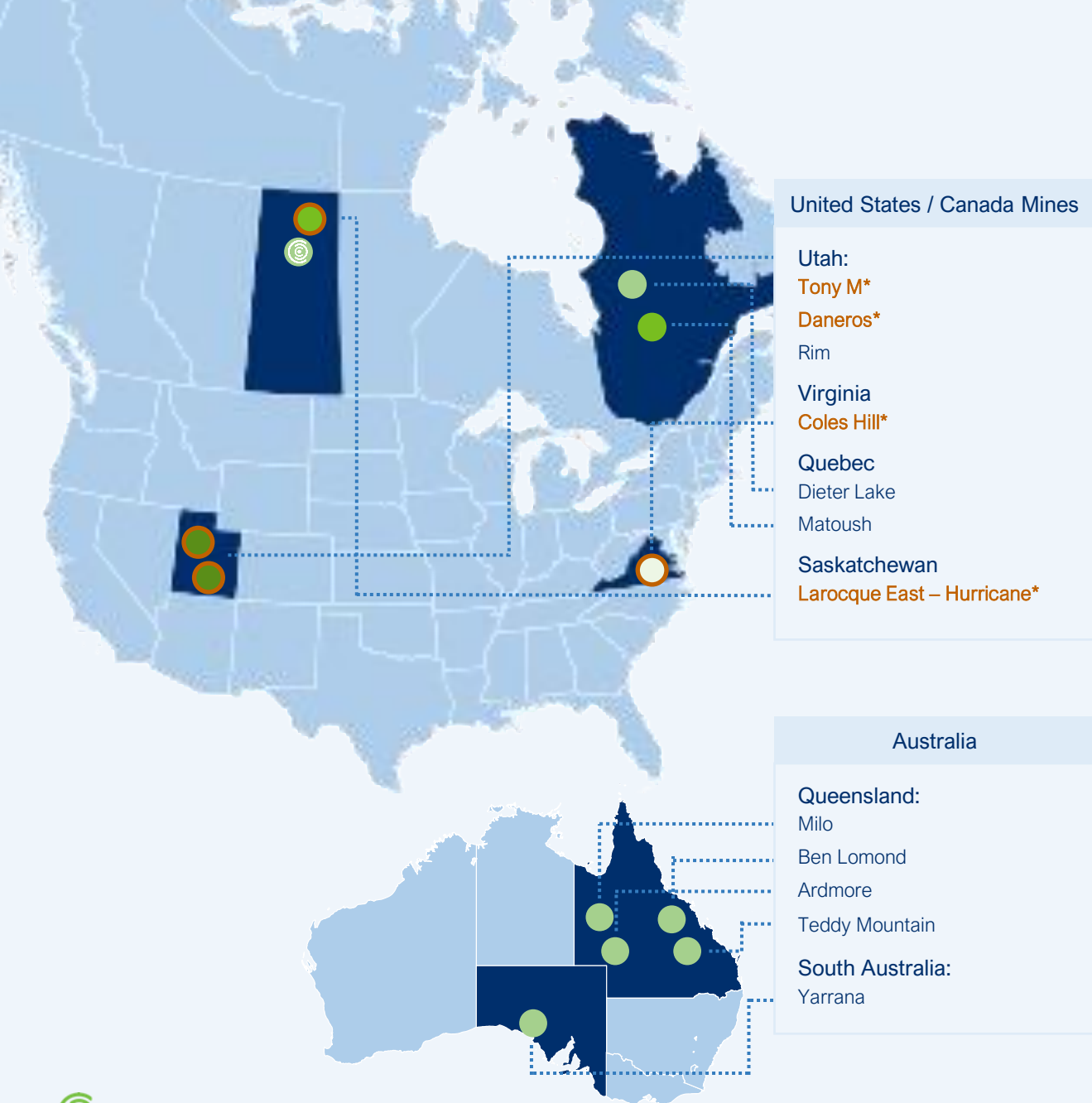


Recent success at Patterson Corridor East ("PCE") has confirmed high grade uranium mineralization.

¹ Additional details regarding reserves and resources can be found in the Rook I FS. Mineral Resources are inclusive of Mineral Reserves. Mineral Resources that are not Mineral Reserves do not have demonstrated economic viability.

² Statements regarding future cash flows, production, sales, uranium price, and operating costs of the Rook I Project are subject to the various risks and assumptions as outlined in the Company's AIF, and those further described under the heading "Forward Looking Information" of this Presentation.

³ The current mine plan and economics remain those in the 2021 Feasibility Study



IsoEnergy: Hidden Value in Plain Sight

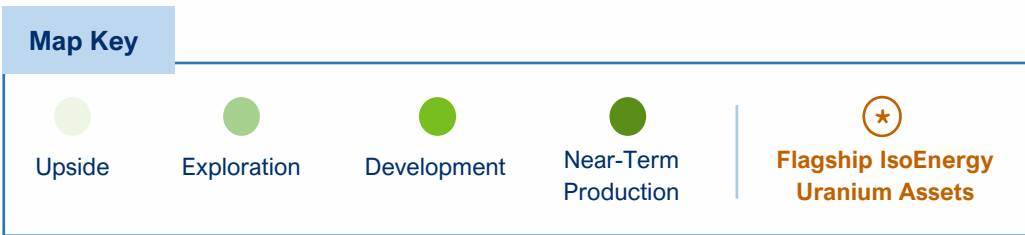
Strategic Ownership in IsoEnergy

NexGen Energy holds ~31% of IsoEnergy, providing exposure to a diversified portfolio of high-quality uranium assets globally, including strategic, large and high-grade **U.S. assets**.

IsoEnergy's assets include:

- **Hurricane (Canada):** One of the world's highest-grade undeveloped uranium deposits.
- **Tony M & Daneros (Utah):** Fully permitted, near-term U.S. production opportunities.

Balanced portfolio across near-term production, development, and strategic long-term optionality.



Positioned to Fund, Build, Deliver

Capital Structure

Liquidity & Strategic Assets

C\$1.0 Bn
Cash¹

**Project Financing
Optionality:**
Project Debt,
Prepayments, Strategic
Partners and others

~30%
Iso Energy Ltd.
Ownership (C\$257M)²

2.7 Mlbs
of U₃O₈³
Strategic Uranium
Inventory

Share Structure

671 M
Shares Issued

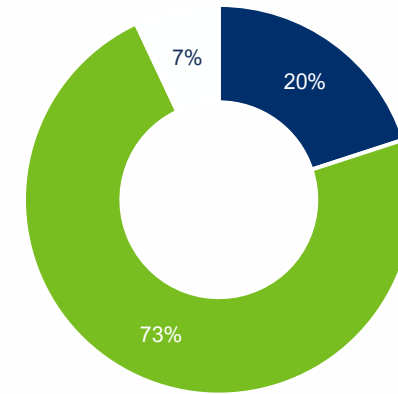
~710 M
Fully Diluted⁴

40 M
Options

C\$220 M
Q1/26 Average
Daily Trading
Volume⁵

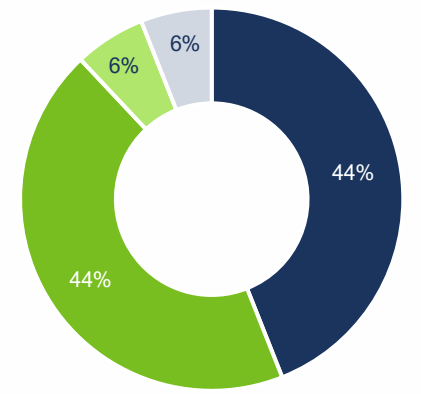
Supports a fully funded path to production with supportive shareholder alignment.

Ownership
As of April 30, 2026⁶



■ Retail ■ Institutional □ Management/Board

Institutional Geographic Distribution
As of November 30, 2025⁷



■ Americas ■ Australia
■ Canada ■ UK/Europe

Analyst Coverage



¹ Approximate cash balance as per March 31st 2026

² Based on IsoEnergy market capitalization as of June 30, 2026

³ On May 8, 2024 the Company entered into a binding term sheet with MMCap International Inc. SPC for purchase of 2,702,410 lb of natural uranium concentrate for an aggregate purchase price of US\$250M based on the 5-day average UxC spot price. This transaction closed on May 28th 2024.

⁴ Inclusion of the US\$110M 2023 Debentures and the US\$250M 2024 Debentures, converted at US\$6.76 and US\$10.73, respectively, would bring the number of fully diluted shares to 749,695,613

⁵ Traded on the TSX, NYSE and ASX for Q1 2026

⁶ Management ownership figures include shares held by Mega Uranium Ltd. For clarity, these shares are not owned or controlled by NexGen management or insiders, as per SEDI filings.

⁷ Rounded to the nearest percentage. Americas includes USA and Latin America, Australia includes Asia Pacific.

Executive and Leadership Team

Proven Leadership



Leigh Curyer

Chief Executive Officer, President
& Director



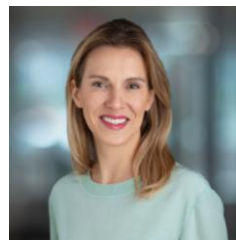
Travis McPherson

Chief Commercial Officer



Ryan Podrasky, CPA

Chief Financial Officer



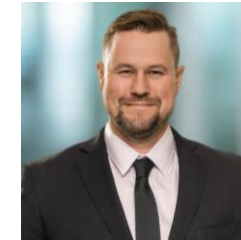
Monica Kras

VP, Corporate Development



Simon Allard

VP, Commercial



Adam Engdahl

VP, Community



Mary Fraser

VP, Communications



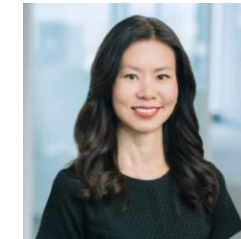
Dylan Smart

VP, Regional Development



Jason Craven

VP, Exploration



Michelle Cho

VP, Finance



Luke Moger

VP, Environment, Permitting,
Licensing

NexGen's executive and leadership team brings expertise across the entire mining cycle - including permitting, project financing, construction, and operations - backed by centuries of combined industry experience and ready to deliver.

Project Development Leadership

Proven Leadership

3,140+

Total Cumulative Years
Experience

202

Combined Team
Size

25+

Total Senior
Leaders

Operations & Project Development Team

2,122+

Cumulative Years
Experience

119

Team Size

\$20B+

Total \$ Value
Delivered

As of June 30, 2026



Graeme Johnson
Chief Project Officer

30+ years' experience leading multi-billion-dollar mining projects from design to execution.



Chris Copley
Project Director

20+ years' experience delivering complex mining developments on time and on budget.



Don Merriman
VP, Engineering

30+ years' experience leading large-scale EPC/EPCM engineering projects in mining.



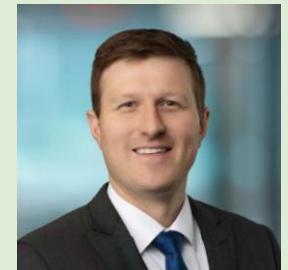
Becky Douglas
Director, Procurement

25+ years' experience leading procurement and supply chain for major projects.



Chris Komperdo
Area Manager

20+ years' experience in underground mining, shaft sinking and early operations.



Bryan Dyck
Lead Processing & Metallurgy

13+ years' experience leading uranium processing and metallurgy programs.

Engineered for execution, NexGen's Project Development team has successful execution experience across the full mining life cycle from early operational planning through to full-scale construction and long-term operations. Collectively, they have delivered globally significant projects, amassing over 2,122+ years of combined experience.

Board Overview

Proven Leadership



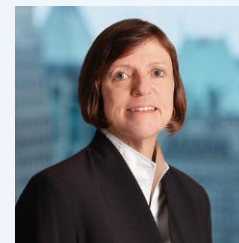
**Christopher
Mcfadden**
Chairman



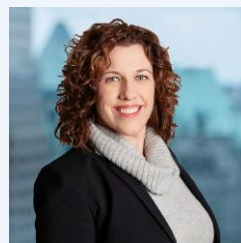
Richard Patricio
Director



Brad Wall
Director



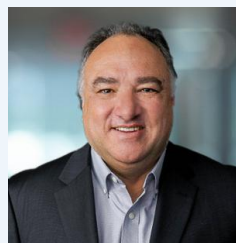
Sybil Veenman
Director



Karri Howlett
Director



Warren Gilman
Director



Ivan Mullany
Director



Sharon Birkett
Director

The Board enhances NexGen's deep expertise through various subject matters, ranging from mining to capital markets and regulatory and government affairs.



GROWTH

2026 Priorities

- Commence Construction on Time and Budget
- Finalize Optimal Financing
- Advance Detailed Engineering and Critical Path Procurement
- Continue Negotiations of Offtake Contracts
- Continue Local Training Programs, Advance Hiring
- PCE Exploration Drilling, Refining Extent of System

WHY INVEST NOW

Right People.

Right Asset.

Right Time.

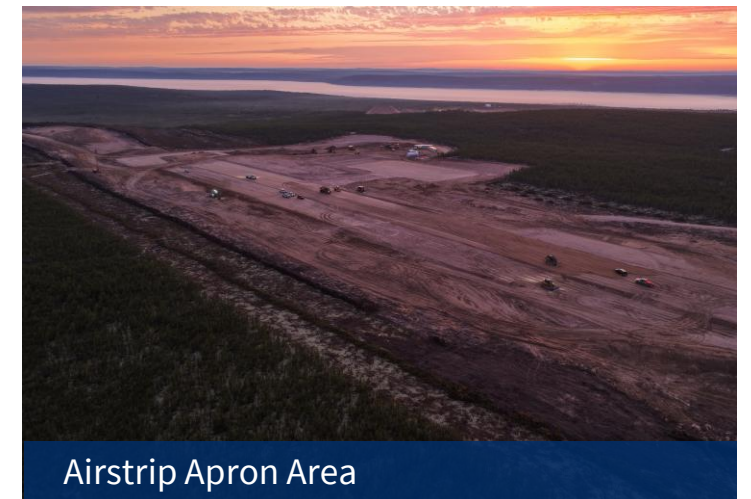
- A strategic natural resource project capable of re-establishing Canada as the largest uranium supplier globally.
- The world's most levered Company to uranium prices.
- Carefully curated team to execute the project flawlessly.
- Fully supported by all Indigenous partners.
- Cash flow generation will re-rate company significantly.
- Underinvestment in uranium supply for +15 years means a growing supply deficit and incentive prices rising.

We're changing the
world of nuclear
energy, so nuclear
energy can change
the world.



Rook I Progress on the Ground

Appendix



Favourable Geology Meets Mining Advantage

NexGen's Rook I Project

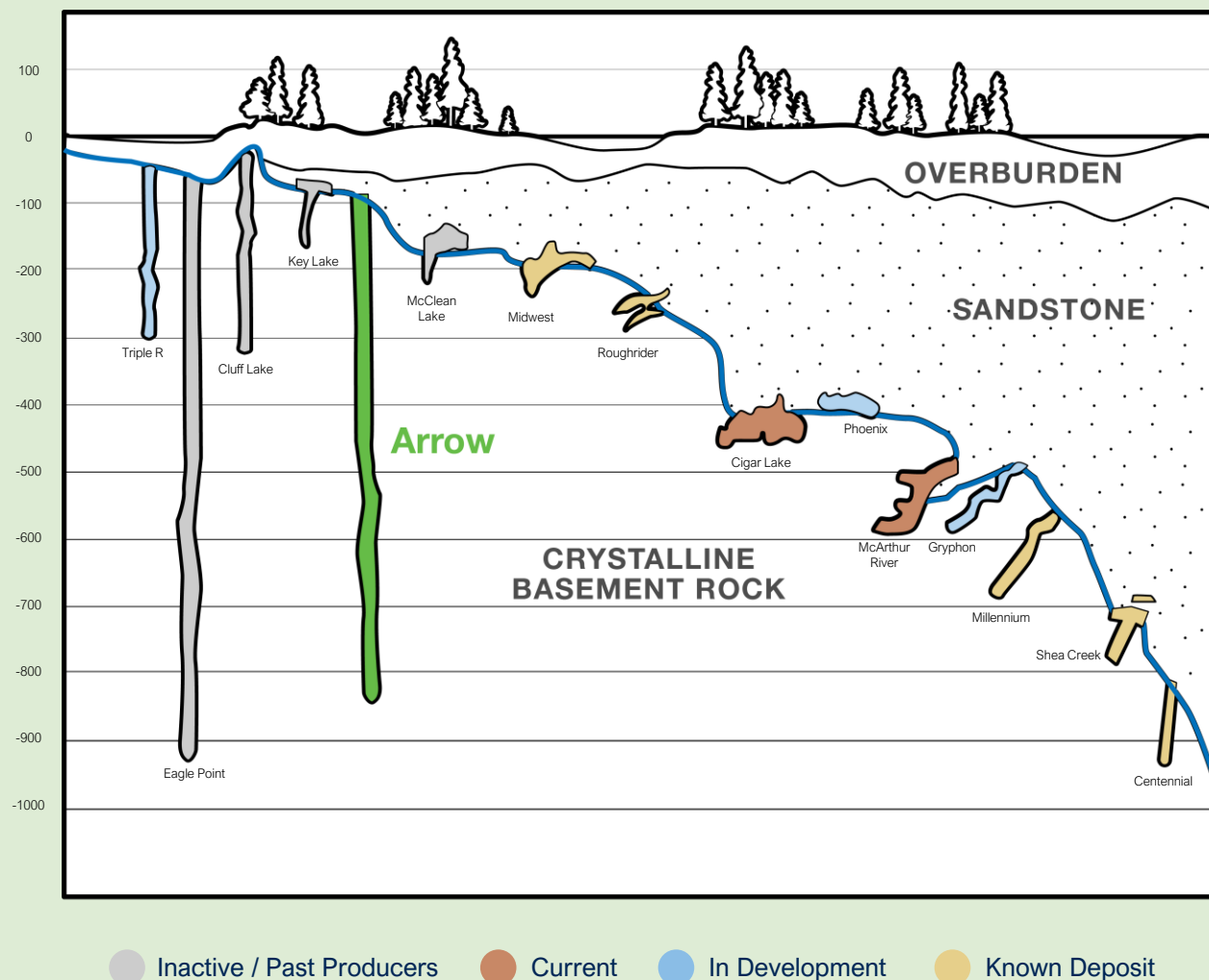
Hosted underground in crystalline-granite rock with low hydraulic conductivity. **Ideal conditions for conventional bulk mining methods.**¹

Low water egress, monometallic, stable ground conditions, and nearly vertically stacked.

The high grades and favorable technical conditions drive low **operating costs**, creating a natural cost hedge and flexibility to structure contracts that will capture upside price potential.

Allows for flexibility of production volumes and provides consistent grades with predictable supply.

¹ Rook I Feasibility Study, 2021



NexGen mineral resources and reserves¹

Appendix

2021 FS Mineral Resources

Classification	Zone	Tonnage (k Tonnes)	Grade (% U ₃ O ₈)	Contained Metal (Mlb U ₃ O ₈)
Measured	A2 LG	920	0.79	16.0
	A2 HG	441	16.65	161.9
	A3 LG	821	1.75	31.7
Measured Total		2,183	4.35	209.6
Indicated	A2 LG	700	0.79	12.2
	A2 HG	56	9.92	12.3
	A3 LG	815	1.26	22.7
Indicated Total		1,572	1.36	47.1
Measured & Indicated	A2 LG	1,620	0.79	28.1
	A2 HG	497	15.9	174.2
	A3 LG	1,637	1.51	54.4
Measured & Indicated Total		3,754	3.10	256.7
Inferred	A1 LG	1,557	0.69	23.7
	A2 LG	863	0.61	11.5
	A2 HG	3	10.95	0.6
	A3 LG	1,207	1.12	29.8
	A4 LG	769	0.89	15.0
Inferred Total		4,399	0.83	80.7

2021 FS Probable Mineral Reserves

Zone	Tonnage (k Tonnes)	Grade (% U ₃ O ₈)	Contained Metal (Mlb U ₃ O ₈)
A2	2,594	3.32	190.0
A3	1,982	1.13	49.5
Probable Reserves Total	4,575	2.37	239.6

¹ Rook I 2021 FS Technical Report as source. 1) Mineral Reserves are reported with an effective date of 21 January 2021. Mineral Reserves are estimated using a long-term metal price of US\$50/lb U₃O₈. (2) Mineral Resources are inclusive of Mineral Reserves. Mineral Resources that are not Mineral Reserves do not have demonstrated economic viability.

Tailings Management: Industry-Leading Design

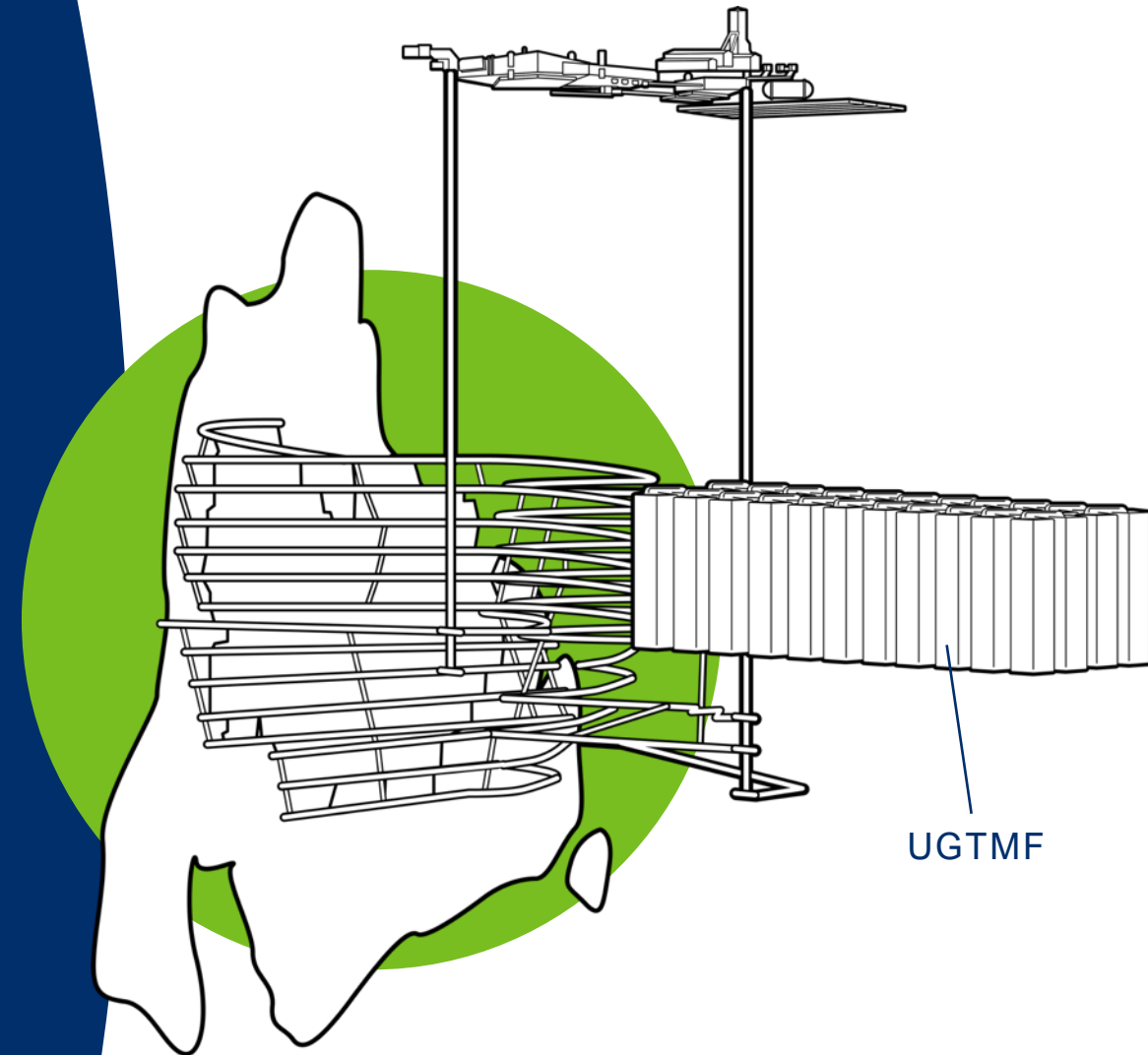
Rook I Project

All processed waste streams will be stored underground, in **backfilled mine stopes**, or a purpose-built, innovative **Underground Tailings Management Facility (UGTMF)**¹.

- Eliminates surface tailings disturbance and reclamation.
- Near zero risk of surface tailings failures, mitigating one of the most significant risks in operating mining projects.

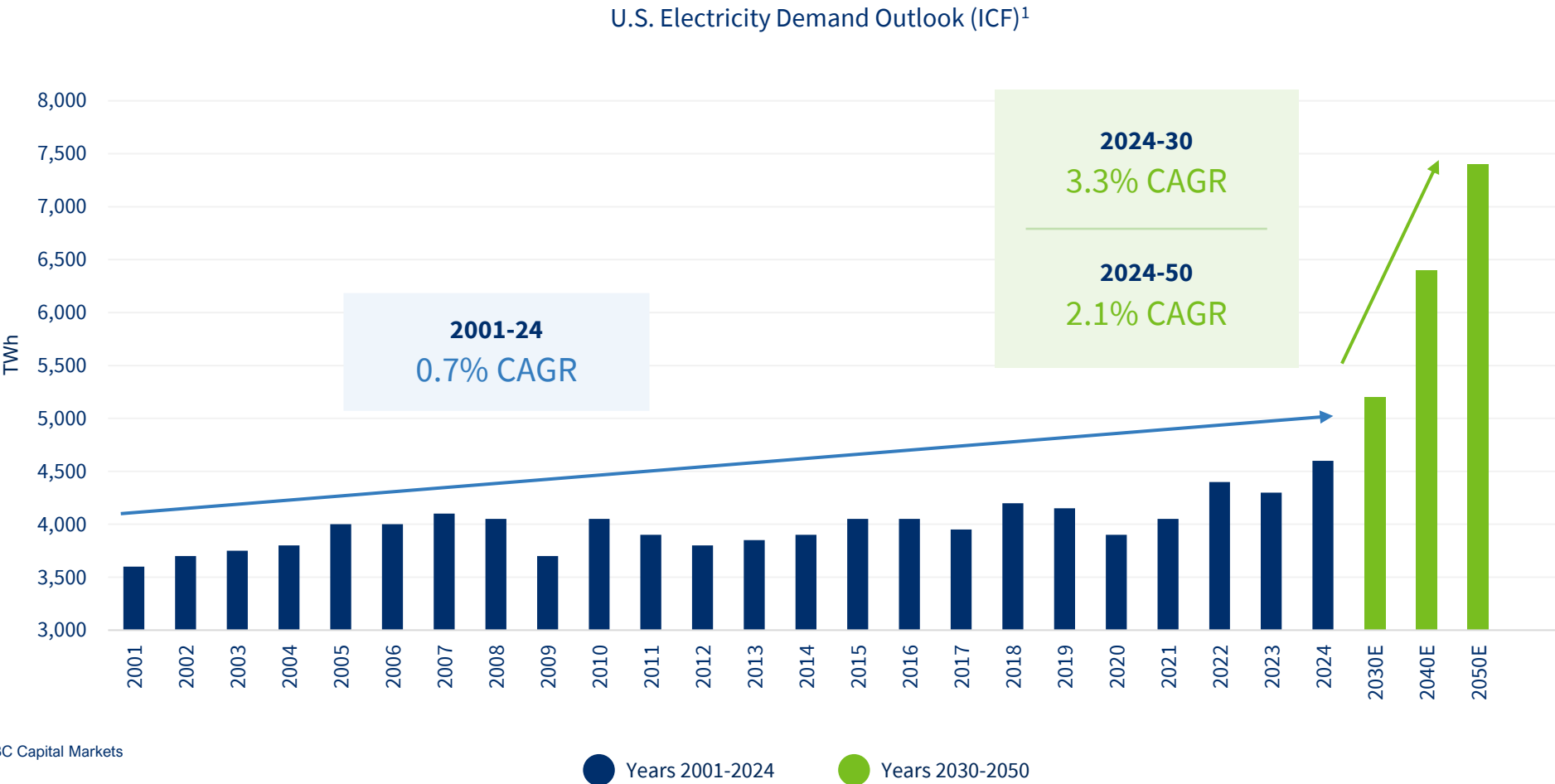
The UGTMF will set a new global standard in environmental mine management.

¹ For more detail on the mining and tailings method please refer to the Rook I FS.



U.S Electricity Demand Outlook

Electricity's Resurgence



¹ EIA, ICF forecast, RBC Capital Markets

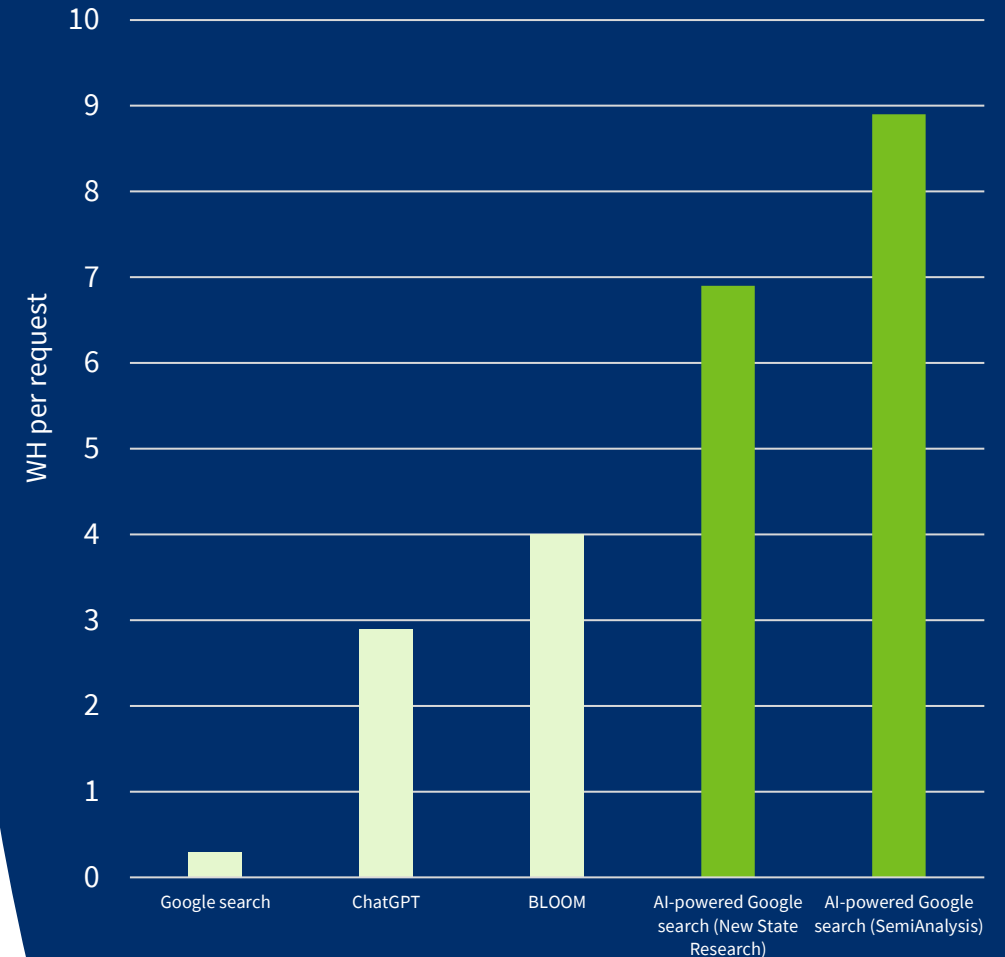
The Electrification Boom: Tailwinds for Nuclear Power

AI NEEDS NUCLEAR

We are experiencing a seismic shift in energy consumption patterns. Energy providers are scrambling to revise demand forecasts to reflect the urgency of this escalating need.

- **Artificial Intelligence (AI) and Sector Electrification:** The exponential rise of AI and the electrification of key sectors are catapulting electricity demands to unprecedented levels. This surge is particularly pronounced in AI, where data centers and computing infrastructure require significant resources.
- **Stable Energy Supply:** The intermittent nature of renewable energy sources like solar and wind require a clean, reliable, baseload power source.
- **Low-Carbon Objectives:** To meet global climate targets, the increased demand for energy will need to be supplied by low-carbon sources.
- **Unleashing the Potential of Advanced Nuclear Technologies:** Smaller, more flexible nuclear reactor designs like small modular reactors (SMRs) are heralding a new era for nuclear energy.
- **Safety and Public Perception:** Continued improvements in nuclear technology are needed to enhance safety standards, waste management, and public perception.

ESTIMATED ENERGY CONSUMPTION PER
REQUEST FOR VARIOUS AI-POWERED
SYSTEMS COMPARED TO A STANDARD
GOOGLE SEARCH¹



¹ The growing energy footprint of artificial intelligence by Alex de Vries

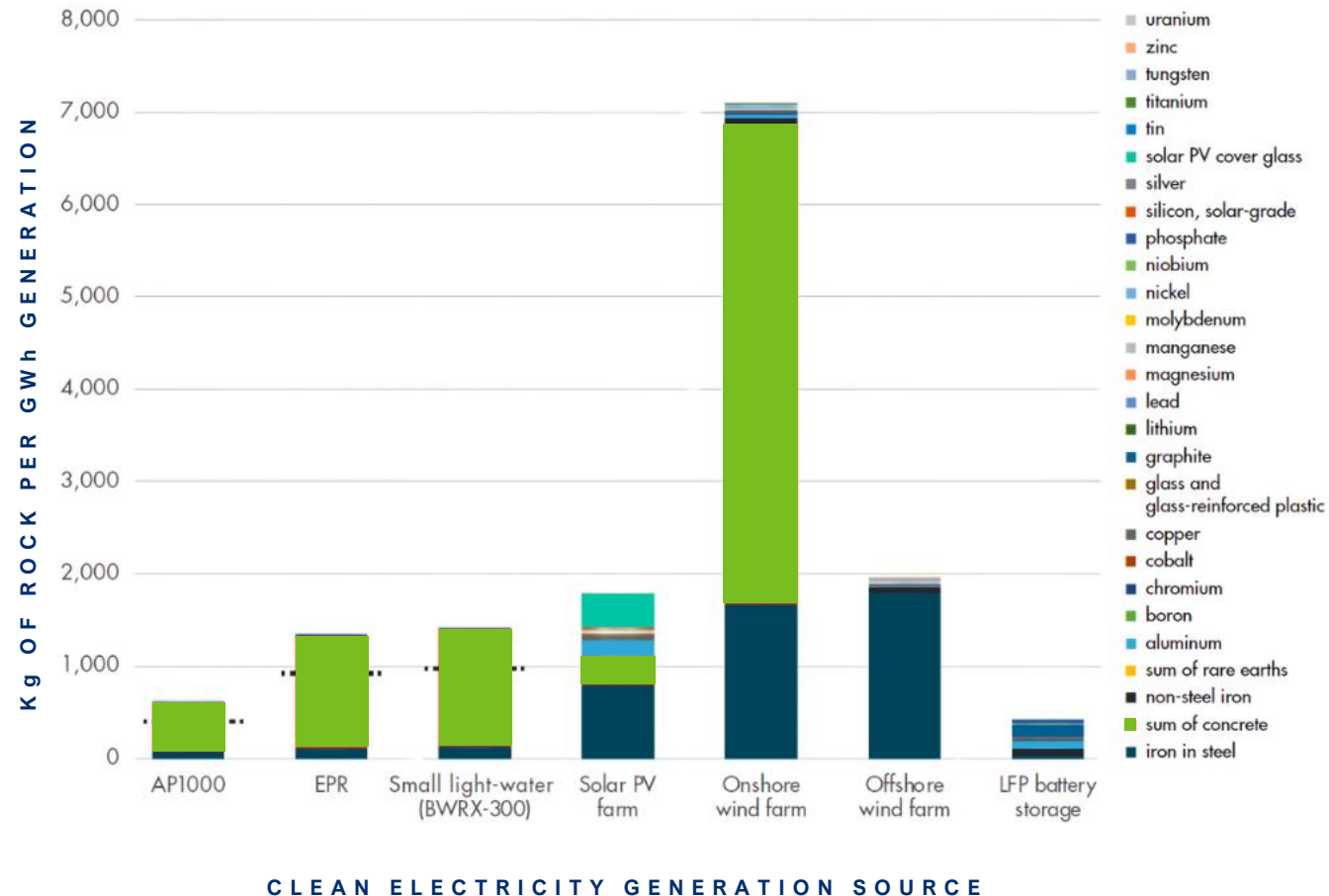
Clean Energy from Nuclear Power

NUCLEAR ADVANTAGE

NUCLEAR POWER FOOTPRINT

- Utilize only **10% to 34%** of critical materials per GWh compared to solar, wind, and battery technologies, delivering potent low-carbon electricity with a minimal materials footprint.
- Has an extractive impact that is **20x** smaller than coal and gas per unit of electricity generated.

MINING INTENSITY OF CLEAN ELECTRICITY GENERATION¹



¹ Break Through Institute – Updated Mining Footprint and Raw Material Needs for Clean Energy. April 2024
AP1000 (Advanced Passive 1000), EPR (European Pressurized Reactor), BWRX-300 (Boiling Water Reactor, 300 MWe class),
Solar PV farm (Solar Photovoltaic farm) and LFP (Lithium Iron Phosphate).



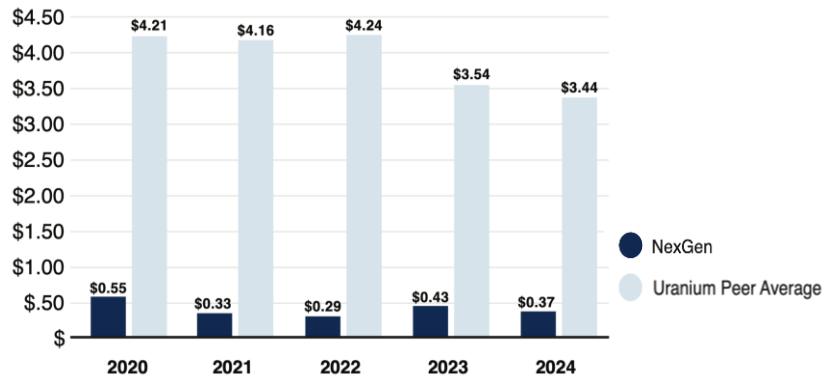
Efficient Use of Capital

ROOK I PROJECT

NexGen's ratio of exploration and development spend relative to its general and administrative spend is the highest compared to its uranium peers, while the Company's ratio of general and administrative spend relative to its market capitalization is the lowest compared to its uranium peers.

G&A Spend per Dollar of Exploration & Development Spend (\$C)*

As of December 31, 2024

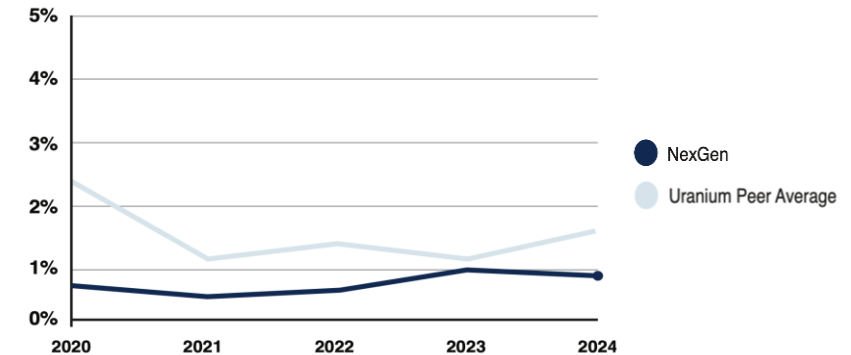


*Exploration and Development spend includes costs related to exploration, drilling, environmental and permitting, engineering and design, direct labour and associated costs. General and Administrative spend includes General or Administrative expenses as defined in each peer's financial statements, or projected if not available at the time of publishing the MIC.

Source: Publicly filed *Annual Financial Statements and Management Information Circular (MIC)* of the management selected "Uranium Peers", being Cameco Corp, Denison Mines Corp, Energy Fuels Inc, Fission Uranium Corp and Uranium Energy Corp. Fission's General and Administrative spend is prorated based on the cumulative spend up to and including 3Q24 and 4Q24 results were not released due to the acquisition by Paladin.

G&A Spend as a Percentage of Market Capitalization()(****)**

As of December 31, 2024



** General and Administrative spend includes General or Administrative expenses as defined in each peer's financial statements and does not include selling costs.

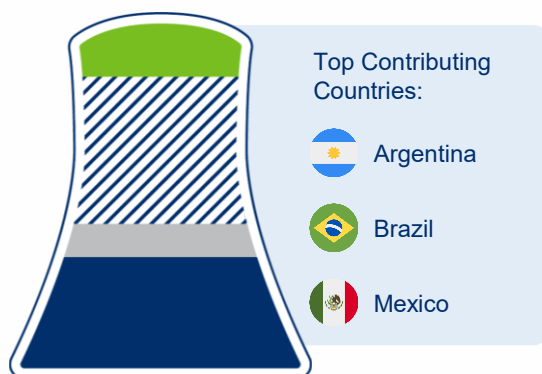
**** Peer Market Capitalization sourced from S&P Capital IQ. Fission's Market capitalization is as of December 24th 2024, the last day it traded on TSX prior to being de-listed at market close.

Source: Publicly filed *Annual Financial Statements and Management Information Circular* of the management selected "Uranium Peers", being Cameco Corp, Denison Mines Corp, Energy Fuels Inc, Fission Uranium Corp and Uranium Energy Corp.

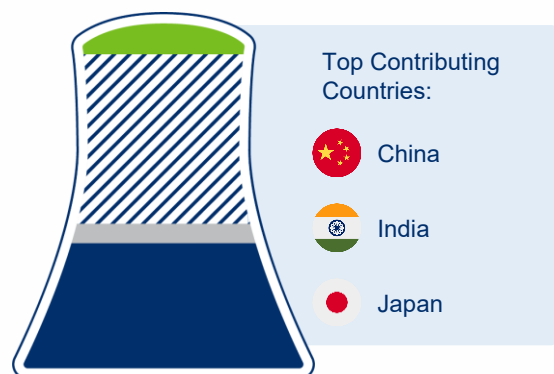
Global Growth is Surging Across All Major Markets

NUCLEAR REACTORS WORLDWIDE ¹

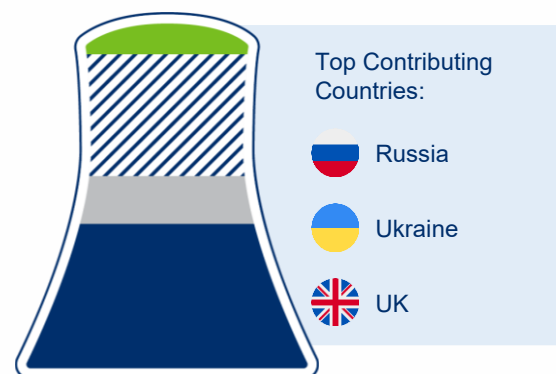
LEGEND



LATAM
7 Operating
0 Planned
4 Proposed
2 Under Construction



APAC
150 Operating
58 Planned
175 Proposed
56 Under Construction



EMEA
170 Operating
64 Planned
95 Proposed
22 Under Construction



NA
111 Operating
2 Planned
37 Proposed
0 Under Construction

Global Reactor count is rising led by APAC and EMEA, with North America re-entering growth mode



Energy Security Commitments

BENEFITS

NexGen's Tier-1 asset in a leading democratic jurisdiction is uniquely positioned to strengthen the energy security across allied nations.

Only sell to utilities in allied democracies committed to energy security and net zero.

Maintain a checklist of standards for all partners in the chain of custody of our uranium.

Keep our supply chain and operations onshore in trusted jurisdictions to guarantee the highest levels of security, safety, labour standards, and local community partnership.

Advocate for policies that support sensibly produced uranium to set a new standard for the industry.

Our commitments make NexGen a supplier of choice for utilities as they seek to expand their nuclear energy operations.



Contact Us

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Development
mkras@nxe-energy.ca

Investor Relations
investors@nxe-energy.ca



nexgenenergy.ca



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[nexgen-energy-ltd-](https://www.linkedin.com/company/nexgen-energy-ltd-)

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