

Corporate Update

November 2025

Powering
**PEOPLE, PARTNERSHIPS
AND PASSION.**

70 Denison Mines
Uranium Development & Exploration

The Athabasca Basin, Northern Saskatchewan

Mining Journal
INTELLIGENCE
Project Pipeline Handbook 2025
**#1 Non-Precious Mining
Development Project
in the World**

DML
LISTED
TSX

DNN
LISTED
NYSE
AMERICAN

Cautionary Statements & References



This presentation and the information contained herein is designed to help you understand management's current views, and may not be appropriate for other purposes. This presentation contains third-party information, such as the uranium market, other issuers, provincial and federal infrastructure and regulations, etc., derived from third-party publications and reports which Denison believes are reliable but have not been independently verified by the Company.

Certain information contained in this presentation constitutes "forward-looking information", within the meaning of the United States Private Securities Litigation Reform Act of 1995 and similar Canadian legislation concerning the business, operations and financial performance and condition of Denison. Generally, these forward-looking statements can be identified by the use of forward-looking terminology such as "plans", "expects", "budget", "scheduled", "estimates", "forecasts", "intends", "anticipates", or "believes", or the negatives and / or variations of such words and phrases, or state that certain actions, events or results "may", "could", "would", "might" or "will be taken", "occur", "be achieved" or "has the potential to". In particular, this presentation contains forward-looking information pertaining to the results of, and estimates, assumptions and projections provided in, the 2023 Phoenix Feasibility Study ("Phoenix FS"), the 2023 Gryphon PFS Update ("Gryphon PFS Update") and the Waterbury PEA, including future development methods and plans, market prices, costs and capital expenditures; de-risking and project assessment activities, plans and objectives; assumptions regarding Denison's ability to obtain all necessary regulatory approvals to commence development at Wheeler River; Denison's expectations with respect to the Convertible Senior Notes Offering, the anticipated use of proceeds, and the capped call transactions; Denison's percentage interest in its projects and assumed continuity of its agreements with its joint venture partners and other third parties; production and SABRE development outlook for McClean Lake; and estimates of uranium industry factors, including physical uranium supply and demand. Statements relating to "mineral resources" are deemed to be forward-looking information, as they involve the implied assessment, based on certain estimates and assumptions that the mineral resources described can be profitably produced in the future.

Forward looking statements are based on the opinions and estimates of management as of the date such statements are made, and they are subject to known and unknown risks, uncertainties and other factors that may cause the actual results, level of activity, performance or achievements of Denison to be materially different from those expressed or implied by such forward-looking statements. Denison faces certain risks, including the proposed use of mining methods which are novel and untested in the Athabasca basin, the inability to permit or develop its projects as currently planned, the inability to secure sufficient financing to pursue its business objectives, the unpredictability of market prices, events that could materially increase costs, changes in the regulatory environment governing the project lands, and unanticipated claims against title and rights to the project. Denison believes that the expectations reflected in this forward-looking information are reasonable but there can be no assurance that such statements will prove to be accurate and may differ materially from those anticipated in this forward looking information. For a discussion in respect of risks and other factors that could influence forward-looking events, please refer to the "Risk Factors" in the Company's Annual Information Form dated March 28, 2025 ("AIF") available on SEDAR+ at www.sedarplus.ca and on EDGAR at www.sec.gov. These factors are not, and should not be construed as being, exhaustive.

Readers should not place undue reliance on forward-looking statements. The forward-looking information contained in this presentation is expressly qualified by this cautionary statement. Any forward-looking information and the assumptions made with respect thereto speaks only to the effective date of this presentation. Denison does not undertake any obligation to publicly update or revise any forward-looking information after such date to conform such information to actual results or to changes in its expectations except as otherwise required by applicable legislation.

Cautionary Note to United States Investors Concerning Estimates of Mineral Resources and Mineral Reserves: This presentation may use terms such as "measured", "indicated" and/or "inferred" mineral resources and "proven" or "probable" mineral reserves, which are terms defined with reference to the guidelines set out in the Canadian Institute of Mining, Metallurgy and Petroleum ("CIM") CIM Definition Standards on Mineral Resources and Mineral Reserves ("CIM Standards"). The Company's descriptions of its projects may not be comparable to similar information made public by U.S. companies subject to the reporting and disclosure requirements under the United States federal securities laws and the rules and regulations thereunder.

Non-IFRS Financial Measures: This presentation includes certain financial measures and ratios that are not defined under IFRS, including but not limited to: working capital. The Company has calculated these measures consistently for all periods presented. The Company believes that, in addition to financial measures and ratios prepared in accordance with IFRS, certain investors use these non-IFRS financial measures and ratios to evaluate the Company's performance. However, the measures do not have a standardized meaning under IFRS and may not be comparable to similar financial measures disclosed by other companies. Accordingly, non-IFRS financial measures should not be considered in isolation or as a substitute for measures and ratios of the Company's performance prepared in accordance with IFRS.

Qualified Persons

The disclosure of a scientific or technical nature within this presentation was reviewed and approved by Chad Sorba, P.Geo, Vice President Technical Services & Project Evaluation, a Qualified Person in accordance with the requirements of NI 43-101.

Technical References

- For further details regarding the **Wheeler River project**, please refer to the Company's press release dated June 26, 2023 announcing the results of the Phoenix FS and Gryphon PFS Update and the technical report titled "*NI 43-101 Technical Report on the Wheeler River Project, Athabasca Basin, Saskatchewan, Canada*" with an effective date of June 23, 2023 ("Wheeler River Technical Report").
- For further details regarding the **Waterbury Lake project**, please refer to the Company's press release dated November 17, 2020 ("Waterbury PEA"). **The PEA is a preliminary analysis of the potential viability of the Project's mineral resources, and should not be considered the same as a Pre-Feasibility or Feasibility Study, as various factors are preliminary in nature.** The PEA includes inferred mineral resources that are considered too speculative geologically to have the economic considerations applied to them that would enable them to be categorized as mineral reserves, and there is no certainty that the preliminary economic assessment will be realized. **Mineral resources are not mineral reserves and do not have demonstrated economic viability. Scheduled tonnes and grade do not represent an estimate of mineral reserves.**
- For further details regarding the **Midwest project**, please refer to the Company's press release dated August 6, 2025. **The PEA is a preliminary analysis of the potential viability of the Project's mineral resources, and should not be considered the same as a Pre-Feasibility or Feasibility Study, as various factors are preliminary in nature.** The PEA includes inferred mineral resources that are considered too speculative geologically to have the economic considerations applied to them that would enable them to be categorized as mineral reserves, and there is no certainty that the preliminary economic assessment will be realized. **Mineral resources are not mineral reserves and do not have demonstrated economic viability. Scheduled tonnes and grade do not represent an estimate of mineral reserves.**

For a description of the data verification, assay procedures and the quality assurance program and quality control measures applied by Denison, please see Denison's AIF. A copy of the foregoing is available on Denison's website and under its profile on SEDAR+ and on EDGAR.

Key Investment Highlights⁽¹⁾:

Advanced Athabasca Basin uranium developer with unique asset mix



Portfolio of four low-cost uranium development projects

- Phoenix, Gryphon, Midwest and THT/Waterbury all projected within UxC's "First Tier" of global assets⁽²⁾

#1

Phoenix combines lowest-cost mining method with Athabasca Basin high-grades

- Ranked #1 non-precious mining development project globally in 2025 by Mining Journal Intelligence
- Flagship In-Situ Recovery ('ISR') project with final federal Environmental Impact Statement accepted by Canadian Nuclear Safety Commission ('CNSC') and Provincial EA Approval received
- Technical de-risking completed; C\$27M spent on long-lead procurement to date⁽³⁾
- First production targeted by mid 2028



Ownership interest in strategic regional asset with McClean Lake mill and producing mine

- Excess licensed milling capacity, with approval for expanded tailings management facility
- Announced 2025 mining restart at McClean North deposit by Orano Canada



High-potential exploration portfolio and interests in key mines / projects operated by "majors"

- Large Athabasca Basin exploration portfolio, including Moon Lake South and Johnston Lake properties
- Minority interests in Cameco-JCU's Millennium project and Orano-JCU's Kiggavik project



Strong balance sheet with ~CAD\$718M in cash, physical uranium and investments⁽⁴⁾

- Denison's financial and liquid assets on hand, relative to 2023 Feasibility Study initial capex for flagship development project (~\$CAD400M for Denison's effective 95% interest) puts the company in a strong position



Focused on the infrastructure-rich Eastern Athabasca Basin in Saskatchewan, Canada



Nuclear energy commitments: 30+ nations pledge to triple nuclear energy capacity by 2050⁽⁵⁾

NOTES: (1) See supporting slides for details. (2) UxC's Uranium Production Cost Study dated August 2025. (3) The amount spent on long lead procurement is a non-GAAP measure and reflects spend on items reported in property plant and equipment as of Sept. 30, 2025. (4) As of Sept. 30, 2025. For additional details see financial statements and MD&A for the period ended Sept 30, 2025. (5) World Nuclear News article dated November 13, 2024.

Diversified Athabasca Basin asset base with superior development leverage

95%⁽¹⁾

**effective interest in
Flagship
Wheeler River project**

Development-stage project
(Phoenix + Gryphon deposits)

Largest Mineral Reserves of
undeveloped uranium projects
in the infrastructure rich
eastern Athabasca Basin

2023 Phoenix Feasibility
Study⁽²⁾

Final Environmental Impact
Statement accepted by CNSC
and received Provincial EA
Approval^(3,4)

22.5%

**interest in
Strategic McClean
Lake Uranium
mill & mines**

~11% of global uranium
production processed
through mill⁽⁵⁾

Mining restarted June 2025
using SABRE mining at
McClean North deposit⁽⁶⁾

Excess licensed milling
capacity

25.17%

**interest in
High-grade Midwest
project close to
McClean mill**

2025 Preliminary Economic
Assessment ('PEA') for ISR
mining at Midwest Main
deposit⁽⁷⁾

High-grades and close
proximity to the McClean
Lake mill support robust
PEA economics

Also being evaluated for
potential development with
SABRE mining method

70.55%

**interest in
Well-situated
Waterbury Lake
project**

PEA stage development
project for ISR mining
proximal to McClean mill⁽⁸⁾

Tthe Heldeth Túé ('THT')
deposit highlights potential
for future development
project pipeline⁽⁸⁾

Successful completion of
2023 ISR field test⁽⁹⁾

50% ownership of JCU⁽¹⁰⁾, adding portfolio of interests including
sizeable share of development-stage assets operated by "majors"

JCU holds various Athabasca Basin exploration project interests, plus 30.099% in
Millennium (Cameco) and 33.8118% in Kiggavik (Orano)

~384,000

hectares of
exploration ground⁽¹¹⁾

NOTES:

(1) Denison's effective interest in Wheeler River includes 90% held directly and 5% held indirectly through its 50% ownership of JCU (Canada) Exploration Company, Limited.

(2) See the Wheeler River Technical Report titled "NI 43-101 Technical Report on the Wheeler River Project, Athabasca Basin, Saskatchewan, Canada" dated Jun. 23, 2023.

(3) See news release dated Nov. 25, 2024 and the Canadian Impact Assessment Registry.

(4) See news release dated Aug. 5, 2025.

(5) Derived from UxC's Uranium Market Outlook dated Q3'2025.

(6) See news release dated Jul. 17, 2025.

(7) See news release dated Aug. 6, 2025.

(8) Refer to the Waterbury Lake Technical Report titled "Preliminary Economic Assessment for the Tthe Heldeth Túé (J Zone) Deposit, Waterbury Lake Property, Northern Saskatchewan, Canada" dated Oct. 30, 2020.

(9) See news release dated Nov. 6, 2023.

(10) See news release dated Aug. 3, 2021.

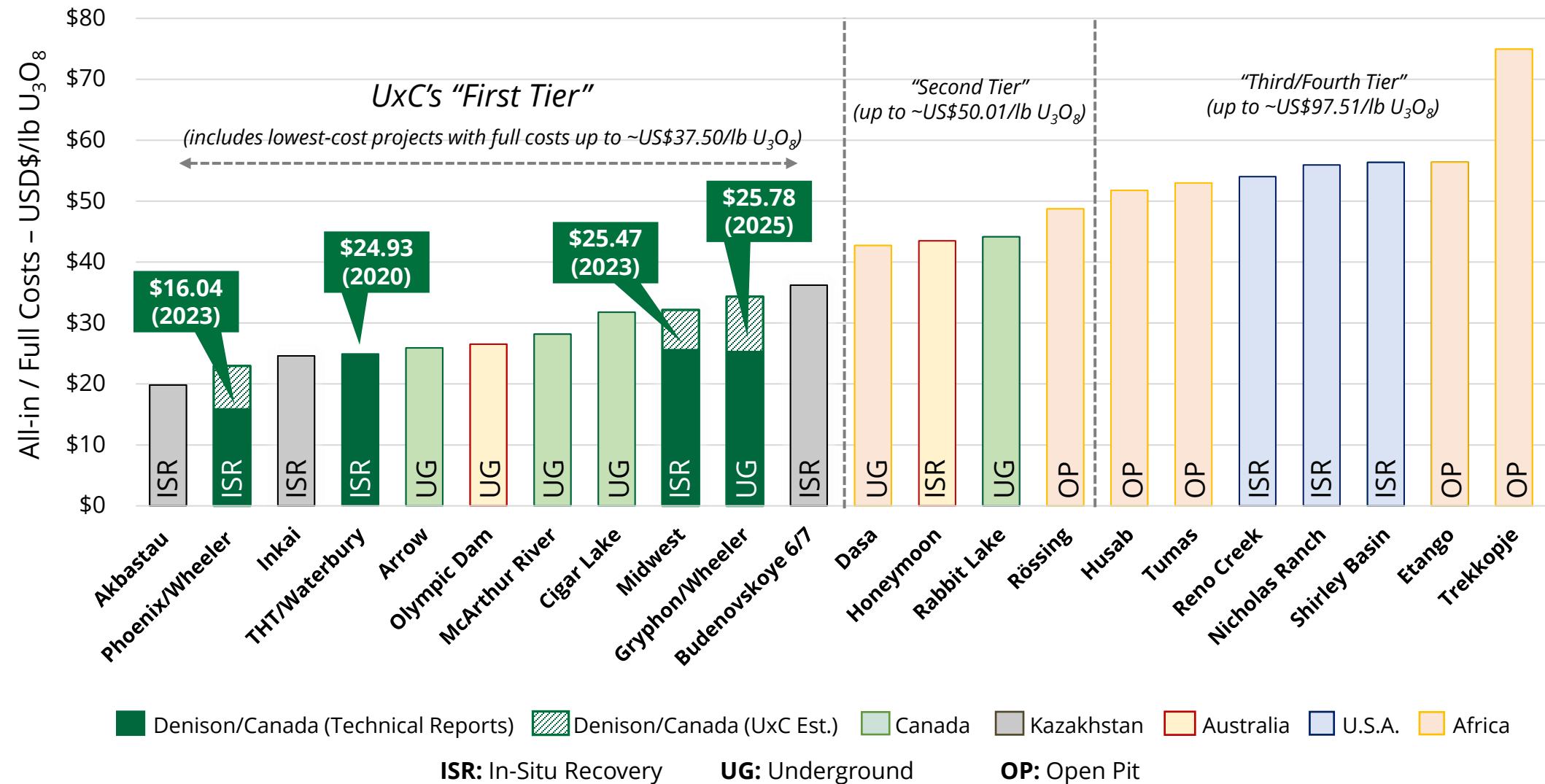
(11) Denison direct land position shown as of Sept. 30, 2025; excludes the land positions held by JCU.

Denison's Development Portfolio Projects:

Four assets amongst the lowest all-in cost assets of UxC's First Tier



Sample of Global Production Costs – August 2025 ⁽¹⁾⁽²⁾⁽³⁾⁽⁴⁾
 Planned and Producing Operations (with Mining Method)



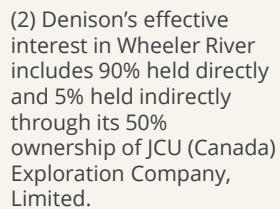
NOTES:

(1) Chart data, including "full costs" and UxC's categorization of production cost "tiers", have been derived from UxC's estimates of worldwide production costs from the Uranium Production Cost Study dated Aug. 2025.

(2) For Phoenix and Gryphon, see the Wheeler River Technical Report titled "NI 43-101 Technical Report on the Wheeler River Project, Athabasca Basin, Saskatchewan, Canada" dated Jun. 23, 2023 and Denison's news release on Jun. 26, 2023.

(3) For THT/Waterbury, refer to the Waterbury Lake Technical Report titled "Preliminary Economic Assessment for the Tthe Heldeth Túé (THT) (J Zone) Deposit, Waterbury Lake Property, Northern Saskatchewan, Canada" dated Oct. 30, 2020 and Denison's news release on Nov. 17, 2020.

(4) For Midwest, refer to Denison's news release dated Aug. 6, 2025.



Robust Balance Sheet with ~CAD\$718M⁽¹⁾ in cash, physical uranium and investments

1.9M lbs U₃O₈
in holdings of physical uranium⁽¹⁾

36

Market value ~**CAD\$217M** (US\$82.00/lb U₃O₈)⁽¹⁾

Acquired at average cost of **USD\$29.70/lb U₃O₈**⁽¹⁾

Long-term holding expected to support project financing for flagship Wheeler River Project⁽²⁾

All material received and held in licenced North American storage facilities (Cameco + ConverDyn)

CAD\$471M
in
cash and cash equivalents⁽¹⁾

CAD\$30M
investments in
uranium
equities and
convertibles held
by Denison⁽³⁾

USD\$345M
issuance of
2031
convertible notes
**Capped call increases
effective conversion
premium to 100%** of
share price on the pricing
date of the offering^(4,5)

Balance sheet position, relative to initial project capex for flagship development asset (Phoenix), is strong among uranium development-stage peers

NOTES:

(1) As of Sept. 30, 2025. For additional details see financial statements and MD&A for the period ended Sept. 30, 2025.

(2) See Denison's news releases dated Mar. 15, 2021, Mar. 22, 2021, and Apr. 1, 2021.

(3) As of Sept 30 2025, for additional details see financial statements and MD&A for the period ended Sept. 30, 2025; includes investments in uranium equities and convertible debentures held by Denison.

(4) Gross proceeds of convertible note offering. For more details please see Denison's press release dated Aug. 15, 2025.

(5) The company has no other debt drawn as of Sept 30, 2025; however, the company has a letters of credit facility in place that is used to secure reclamation letters of credit, as more fully described in the financial statements and MD&A for the period ended Sept. 30, 2025.

95% owned flagship Wheeler River project⁽¹⁾⁽²⁾

Potential to Deliver Meaningful Production When the Market Needs It

Two

premier and viable development assets

Phoenix – In-Situ Recovery (“ISR”) operation with on-site processing to finished U_3O_8

Gryphon – contributes additional production via conventional underground mining with assumed toll milling at 22.5% Denison owned McClean Lake mill

106.4M lbs U_3O_8
(combined, 100% basis)⁽¹⁾
Proven & Probable Reserves

~16.5 years

Aggregate operating Mine life⁽³⁾

Phoenix advancing towards final investment decision

Provincial EA approved⁽⁶⁾

EIS accepted as final by CNSC⁽⁴⁾

CNSC Hearing dates in Oct. & Dec. 2025⁽⁵⁾

Total engineering ~85% complete⁽⁷⁾

Rigorous multi-year technical de-risking

2022 Feasibility Field Test successfully recovered uranium bearing solution⁽⁸⁾

2-year Construction

Planned construction period for Phoenix prior to first production

CAD\$419M

Estimated (100% basis) Initial CAPEX (Phoenix)

Gryphon expected to be funded from internal cash flows

Phoenix cash flow expected to fund Gryphon CAPEX

Project benefits from existing or planned Denison-owned infrastructure

Mid-2028

Planned Production Start-up for Phoenix

NOTES:

(1) Refer to the Wheeler River Technical Report titled "NI 43-101 Technical Report on the Wheeler River Project, Athabasca Basin, Saskatchewan, Canada" dated Jun. 23, 2023.

(2) Denison increased its effective interest in Wheeler River as part of the acquisition of 50% of JCU (Canada) Exploration Company, Limited. See Denison's news release dated Aug. 3, 2021.

(3) Reflects 10-year mine life estimated for Phoenix and 6.5-year mine life estimated for Gryphon.

(4) See news release dated Nov. 25, 2024 and Canadian Impact Assessment Registry.

(5) See news release dated Feb. 27, 2025 and Canadian Impact Assessment Registry.

(6) See news release dated Aug. 5, 2025.

(7) As of Sept. 30, 2025. For additional details see financial statements and MD&A for the period ended Sept. 30, 2025.

(8) See news releases dated Oct. 17, 2022 and Nov. 22, 2022.

Phoenix In-Situ Recovery ("ISR") Feasibility Study (2023)⁽¹⁾:

Reflects rigour of multi-year technical de-risking and delivers impressive economic results



70.5M
lbs U₃O₈

@
11.4%
U₃O₈

Measured & Indicated Mineral Resources
(280,200 tonnes, 100% basis)

One of the highest-grade undeveloped uranium deposits globally

Including...
56.3M
lbs U₃O₈

@ **46.0% U₃O₈**

M&I mineral resources for **Zone A high-grade domain**

c\$1.56B

estimated

Base-case post-tax NPV_{8%}
(100% basis)⁽³⁾

90.0%

estimated

Base-case post-tax IRR⁽³⁾

us\$6.28

/ lbs U₃O₈

average

Cash Operating Costs

(C\$8.51/lb U₃O₈)

c\$419M

estimated

Initial CAPEX
(100% basis)

3.7 to 1

Base-case post-tax NPV to initial capital cost ratio

us\$16.04

/ lbs U₃O₈

average

All-in Cost⁽⁴⁾

(C\$21.73/lb U₃O₈)

PHOTOS:

Phoenix Feasibility Field Test (FFT) facilities during operations in 2022.

NOTES:

(1) See the Wheeler River Technical Report titled "NI 43-101 Technical Report on the Wheeler River Project, Athabasca Basin, Saskatchewan, Canada" dated Jun. 23, 2023.

(2) Mining Journal Project Pipeline Handbook 2025

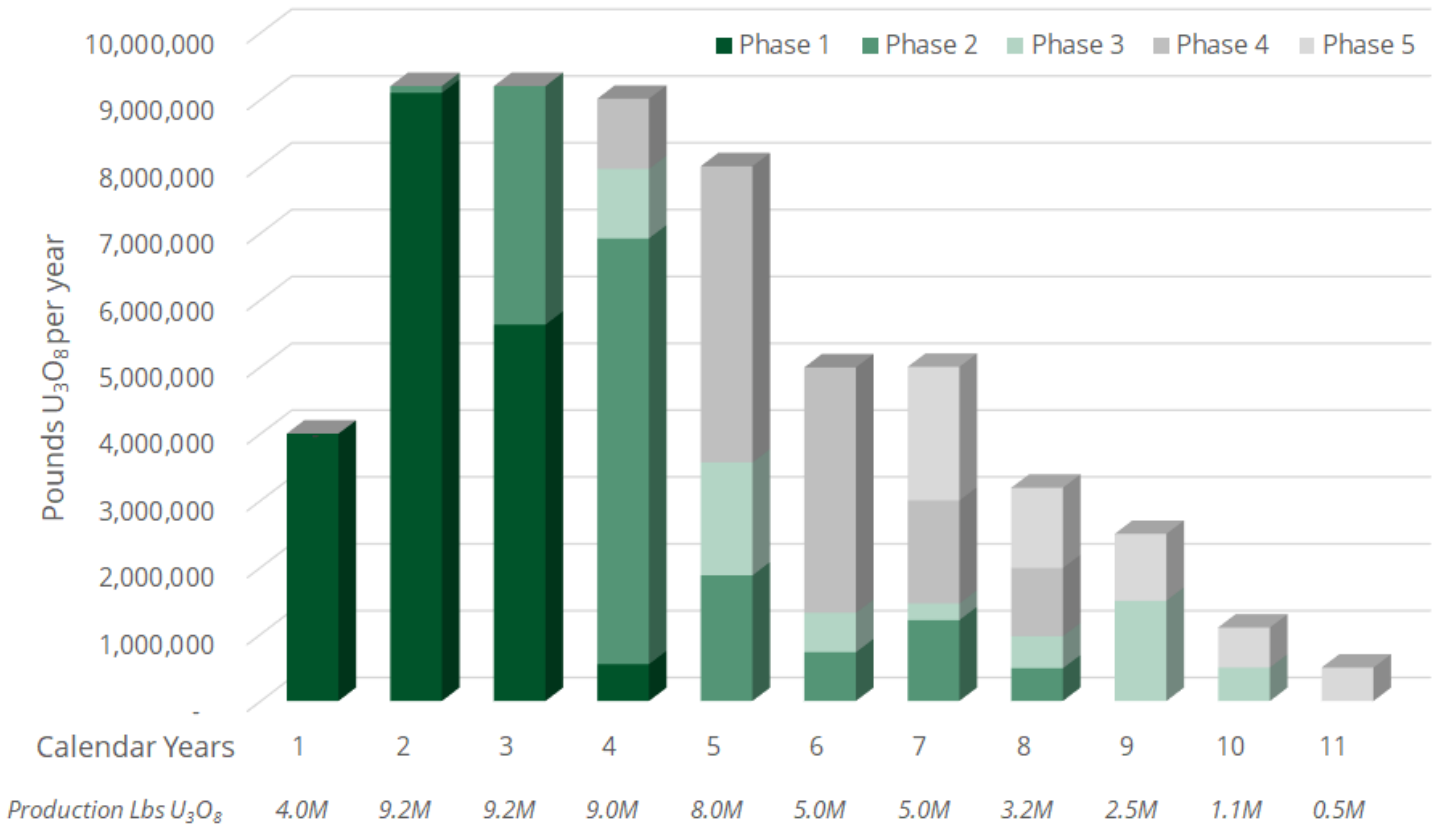
(3) NPV and IRR are calculated to the start of construction activities for the Phoenix operation and excludes \$67.4 million in pre-FID expenditures. Post-tax NPV, IRR and payback period are based on the "adjusted Post-tax" scenario, which includes the benefit of entity level tax attributes which are expected to be available and used to reduce taxable income from the Phoenix operation. See Wheeler River Technical Report for details.

(4) All-in cost is estimated on a pre-tax basis and includes all project operating costs, capital costs post-FID, and decommissioning costs divided by the estimated number of pounds U₃O₈ to be produced. See Wheeler River Technical Report and Denison's news release dated Jun. 26, 2023 for details.

Phoenix ISR Feasibility Study (2023)⁽¹⁾: Optimized production profile based on detailed ISR mine planning efforts



Phoenix mine production per year by phase



NOTES: (1) Refer to the Wheeler River Technical Report titled "NI 43-101 Technical Report on the Wheeler River Project, Athabasca Basin, Saskatchewan, Canada" dated Jun. 23, 2023; (2) NPV and IRR are calculated to the start of construction activities for the Phoenix operation, and excludes \$67.4 million in pre-FID expenditures; (3) Payback period is stated as number of months to payback from the start of uranium production; (4) Post-tax NPV is estimated to be \$1.43 billion (\$1.56 billion adjusted) in the base-case; (5) Post-tax payback period is estimated to be 11 months (10 months adjusted) in the Base-Case; (6) Post-tax IRR is estimated to be 82.3% (90.0% adjusted) in the Base-Case.

Robust economics

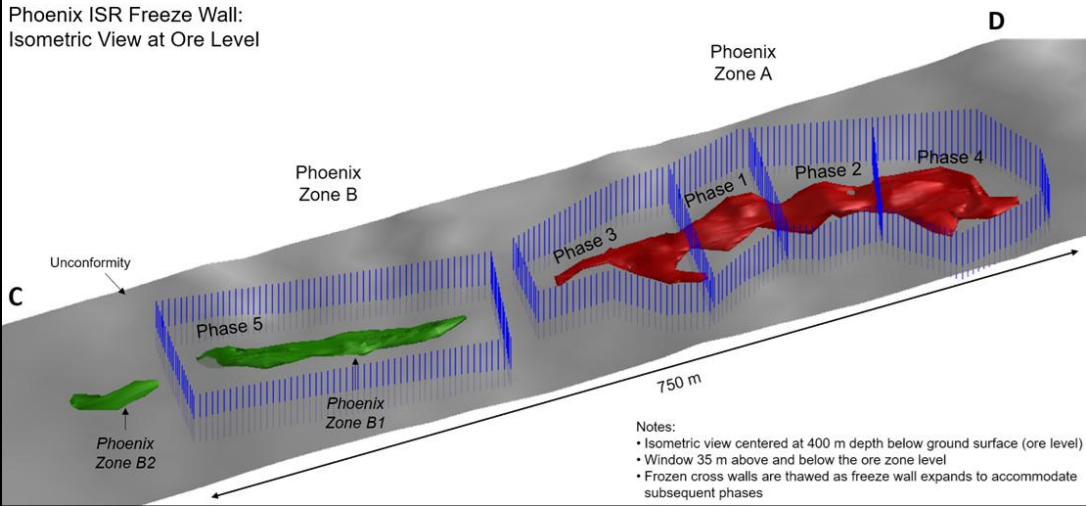
Expected to absorb cost inflation + adjustments from detailed design

First production targeted by the first half of 2028

Planned 2-year construction period

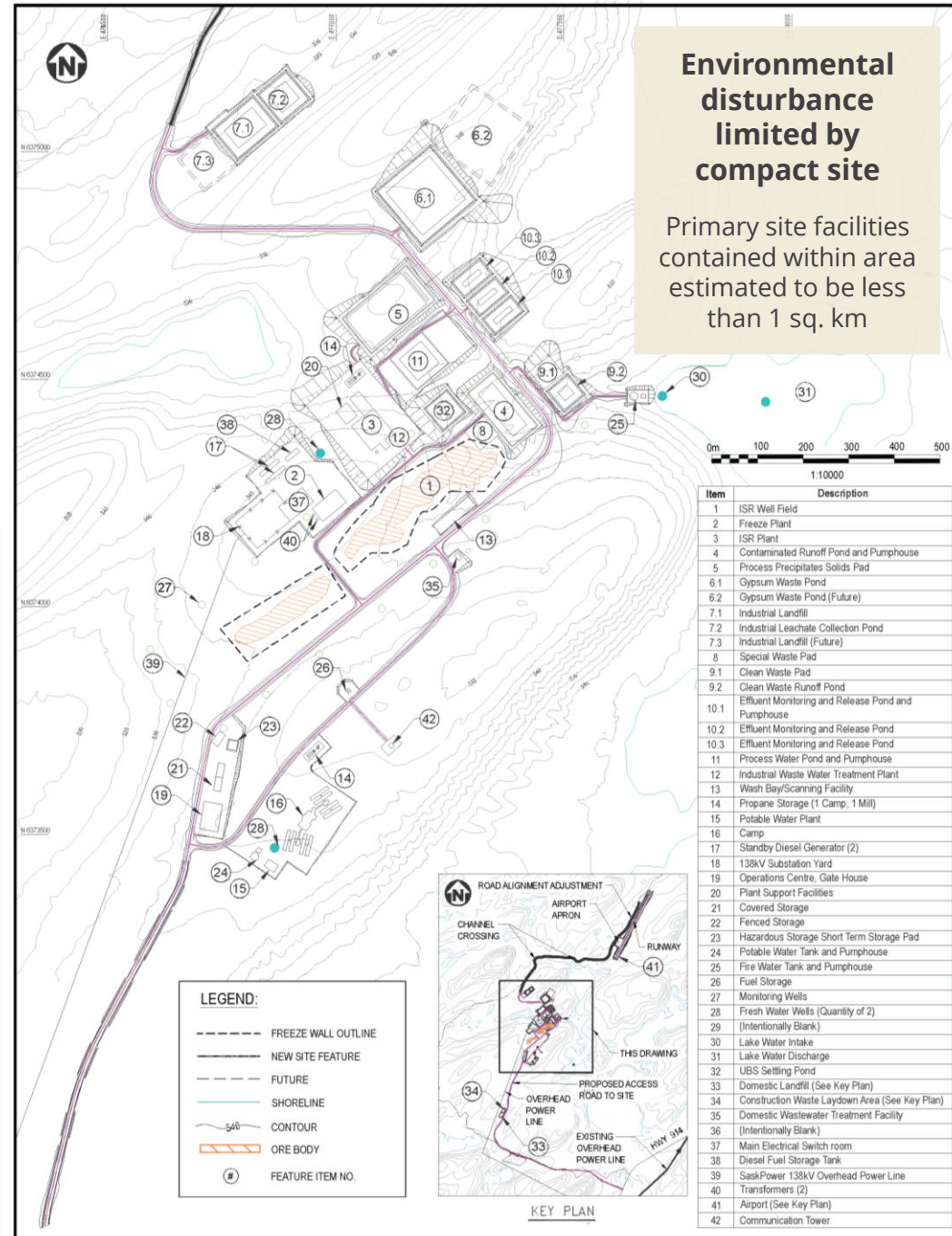
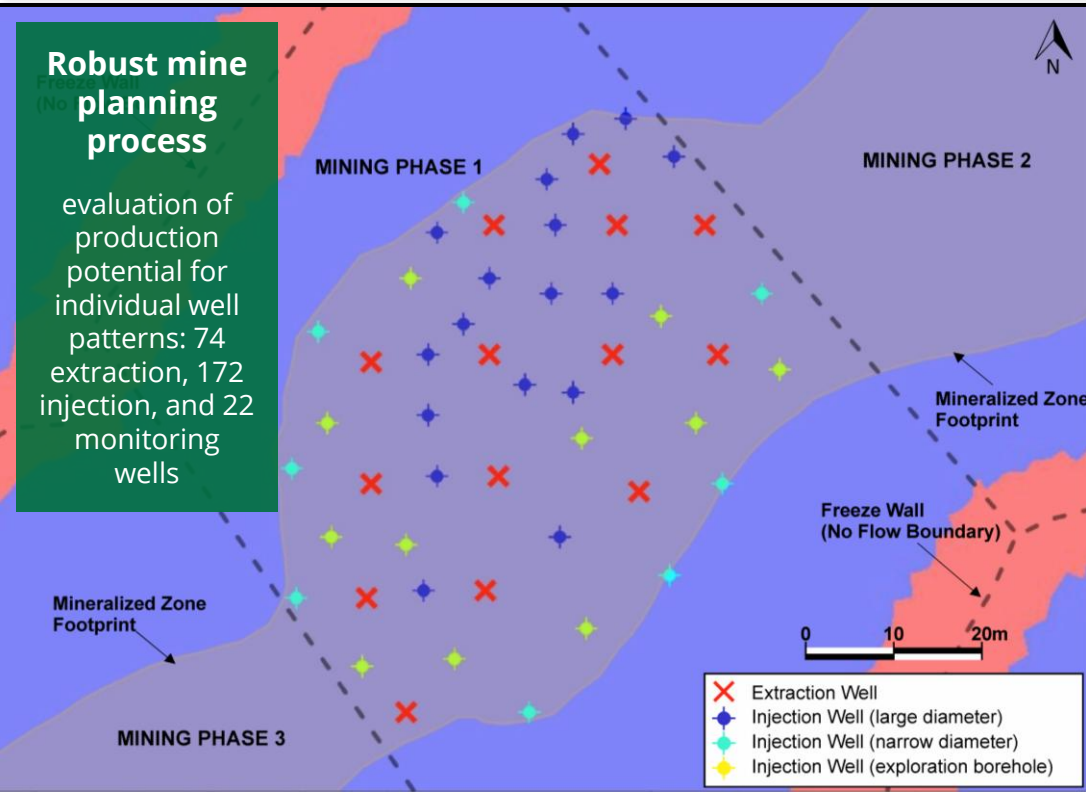
56.7 million lbs U₃O₈ in proven and probable reserves (219,000 tonnes at 11.7% U₃O₈)

Assumptions / Results ⁽¹⁾	Base Case
Selling price / lb U ₃ O ₈	US\$66-US\$70
USD:CAD FX Rate	1.35
Pre-tax NPV _{8%} ⁽²⁾⁽⁴⁾ (100%)	\$2.34 billion
Change from 2018 PFS	+150%
Pre-tax payback period ⁽³⁾⁽⁵⁾	~10 months
Pre-tax IRR ⁽²⁾⁽⁶⁾	106%



Robust mine planning process

evaluation of production potential for individual well patterns: 74 extraction, 172 injection, and 22 monitoring wells



2023 Phoenix Feasibility Study

Provides excellent basis for detailed engineering design efforts to support a future final investment decision

NOTES:

(1) Refer to the Wheeler River Technical Report titled "NI 43-101 Technical Report on the Wheeler River Project, Athabasca Basin, Saskatchewan, Canada" dated Jun. 23, 2023.

In-Situ Recovery Feasibility Field Test (FFT): Successful first-of-its-kind ISR field test in the Athabasca Basin^(1, 2)

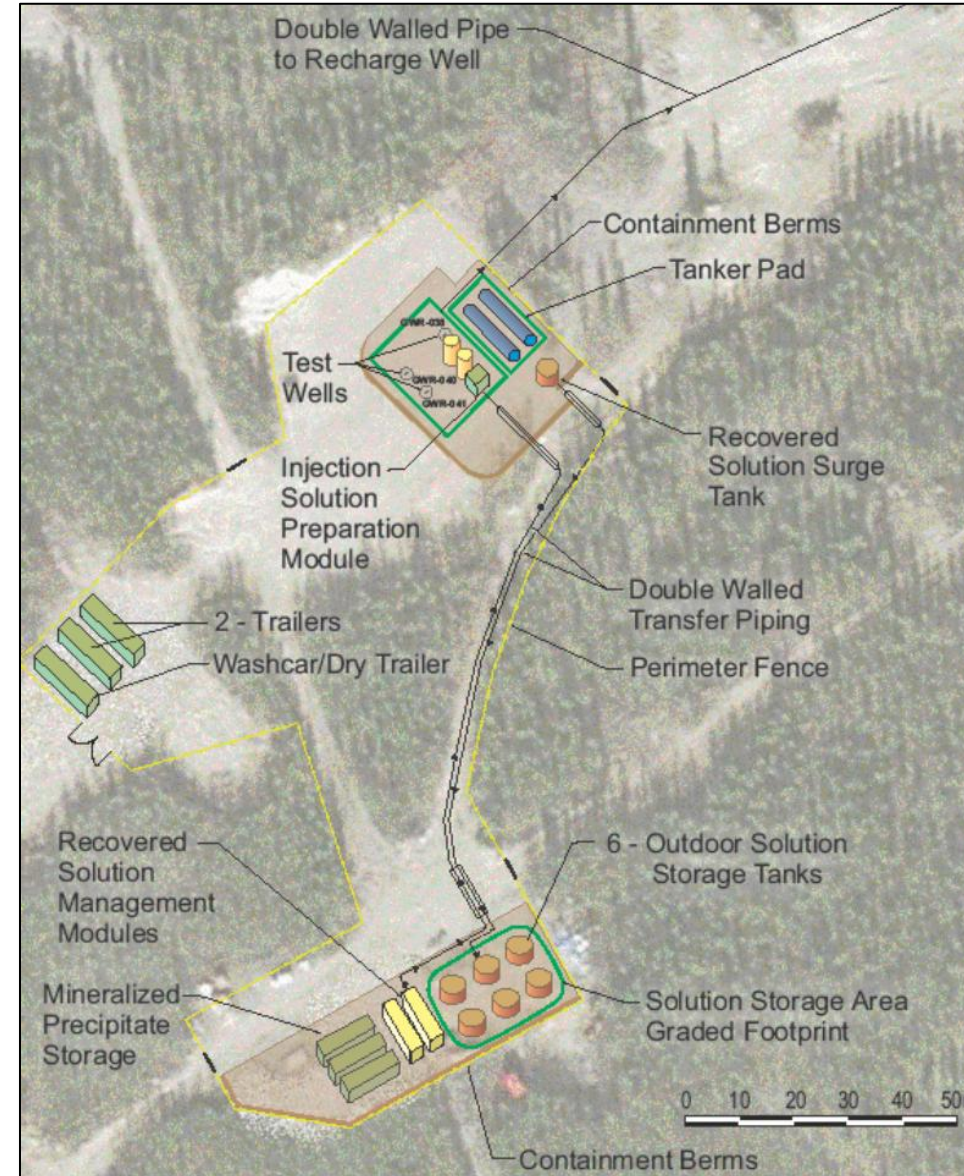


PHOTO:

Inside FFT coverall structure during commissioning – including view of commercial scale test wells, monitoring wells, and injection solution preparation module (left) and plan map of Phoenix FFT site (right).

NOTES:

(1) See Denison's news release dated Jul. 12, 2022.

(2) See Denison's news release dated Aug. 8, 2022.

(3) See Denison's news release dated Oct. 17, 2022.

(4) See Denison's news release dated Dec. 12, 2022.

(5) See Denison's news release dated Nov. 2, 2023.

The Phoenix FFT was designed to validate and inform various Feasibility Study (FS) elements for use of **In-Situ Recovery (ISR)** mining, including production and remediation profiles, and is planned to occur in three phases. The first two phases supported the 2023 Phoenix FS.

Leaching

Completed ✓
successful injection of acidic solution and recovery of uranium bearing solution using a portion of the test pattern installed at Phoenix in 2021⁽³⁾.

Neutralization

Completed ✓
successful injection of mild alkaline solution to reverse the leaching process and return test area to protective conditions⁽⁴⁾.

Recovered Solution Management

Completed ✓
compliance phase to separate recovered solution into mineralized precipitates (temporarily stored on site) and neutralized treated solution (injected into sub-surface)⁽⁵⁾.

Phoenix De-Risking and Operational Readiness

Progressing the high-grade, low-cost Phoenix ISR project towards a construction decision & execution

Significant De-risking and Engineering Investment to Position for Execution



- ✓ **High-grade, low-cost project** justified technical studies and extensive test work, detailed engineering, permitting and team building during period prior to improved uranium market
- ✓ **Total engineering ~85% complete**, including several scopes planned for the first year of construction approaching 100% total engineering⁽¹⁾

Leading Permitting & Community Engagement



- ✓ **Final stages of permitting** with final CNSC hearing set for License to Construct and EIS approval in Oct. and Dec. 2025⁽²⁾
- ✓ **Received Saskatchewan EA approval** for Phoenix, effectively harmonized with federal EA pending CNSC approval⁽³⁾
- ✓ **Multiple impact-benefit type agreements** with Indigenous nations and northern communities, plus leading engagement practices⁽⁴⁾

Advanced Procurement & Construction Planning



- ✓ **Long-lead procurement commenced in 2023** and is well progressed, with project benefiting from significant regional infrastructure already in place (power line, roads)⁽¹⁾
- ✓ **Construction planning** continues to estimate ~2-year timeline with anticipated start in early 2026 and first year of construction focused on civil works, key electrical infrastructure, freeze wells, and concrete slabs and enclosures for the plant⁽¹⁾

Robust Balance Sheet



- ✓ **Robust Balance Sheet with ~CAD\$718M** in cash, physical uranium and investments⁽¹⁾
- ✓ **Physical uranium holdings** intended to support project financing and offer significant financial flexibility⁽¹⁾
- ✓ **Final investment decision (FID)** to be considered upon receipt of remaining permits and licenses



Commercial Strategy Aligned with Project Financing Objectives and Asset Base

- ✓ Active engagement with future customers for potential commercial contracting
- ✓ Multiple sources of supply is a differentiator: Physical U₃O₈, McClean Lake North production, & future Phoenix production

NOTES:

(1) For additional details see financial statements and MD&A for the period ended Sept. 30, 2025.

(2) See Denison's news releases dated Feb. 27, 2025.

(3) See Denison's news releases dated Aug. 5, 2025.

(4) See news releases dated Sept. 27, 2023, Jul. 11, 2024, and Oct. 20, 2022, and MD&A for the period ended Dec. 31, 2022.

Gryphon Underground (“UG”) Pre-Feasibility Study Update (2023):

Provides Denison with additional source of low-cost production to reinvest Phoenix cash flows⁽¹⁾



61.9M lbs U ₃ O ₈ @ 1.7% U ₃ O ₈ Indicated Mineral Resources (1,643,000 tonnes, 100% basis) Moderate grade allows low-cost conventional UG mining approach	c\$864M estimated Base-case after-tax NPV _{8%} (100% basis) ⁽²⁾	c\$737M estimated Initial CAPEX (100% basis)
	37.6% estimated Base-case after-tax IRR ⁽²⁾	2023 PFS Update Scope limited to cost update and minor schedule optimization
Plus... 1.9M lbs U ₃ O ₈ Inferred mineral resources (73,000 tonnes @ 1.2% U ₃ O ₈ , 100% basis)	us\$12.75 / lbs U ₃ O ₈ average Cash Operating Costs (C\$17.27/lb U ₃ O ₈)	us\$25.47 / lbs U ₃ O ₈ average All-in Cost ⁽³⁾ (C\$34.50/lb U ₃ O ₈)

PHOTO:

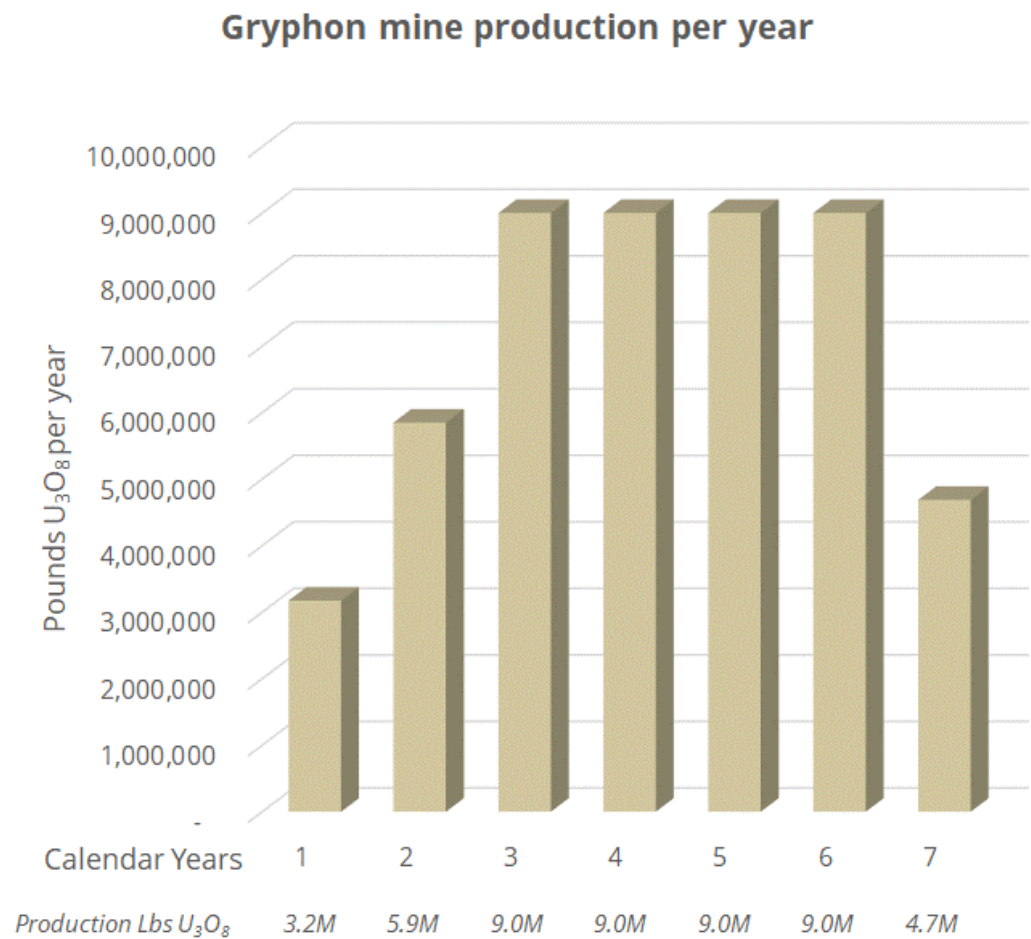
View inside the SX circuit at Denison’s 22.5% owned McClean Lake mill, which is assumed to toll mill production from the Gryphon UG operation.

NOTES:

(1) See the Wheeler River Technical Report titled “NI 43-101 Technical Report on the Wheeler River Project, Athabasca Basin, Saskatchewan, Canada” dated Jun. 23, 2023.

(2) NPV and IRR are calculated to the start of pre-production activities for the Gryphon operation.

(3) All-in cost is estimated on a pre-tax basis and includes all project operating costs, capital costs post-FID, and decommissioning costs divided by the estimated number of pounds U₃O₈ to be produced. See Wheeler River Technical Report and Denison’s news release dated Jun. 26, 2023 for details.



NOTES: (1) Refer to the Wheeler River Technical Report titled "NI 43-101 Technical Report on the Wheeler River Project, Athabasca Basin, Saskatchewan, Canada" dated Jun. 23, 2023; (2) NPV and IRR are calculated to the start of construction activities for the Gryphon operation, and excludes \$56.5 million in pre-FID expenditures; (3) Payback period is stated as number of months to payback from the start of uranium production; (4) Post-tax NPV is estimated to be \$864.2 million in the Base Case; (5) Post-tax payback period is estimated to be 23 months in the Base-Case; (6) Post-tax IRR is estimated to be 37.6% in the Base Case.

Benefits from existing or planned Denison-owned infrastructure

Payback period under 2-years
for pre- and post-tax base-case scenarios

49.7 million lbs U₃O₈ in probable reserves
(1,275,000 tonnes at 1.8% U₃O₈)

Assumptions / Results ⁽¹⁾	Base Case
Selling price / lb U ₃ O ₈	US\$75
USD:CAD FX Rate	1.35
Pre-tax NPV _{8%} ⁽²⁾⁽⁴⁾ (100%)	\$1.43 billion
Change from 2018 PFS	+148%
Pre-tax payback period ⁽³⁾⁽⁵⁾	~20 months
Pre-tax IRR ⁽²⁾⁽⁶⁾	41.4%

22.5% Denison-owned McClean Lake Mill:

Strategic asset uniquely positioned to support new sources of supply from JV owners



~11%
of global
uranium
production⁽¹⁾

2024 operating
production of
16.9M lbs U₃O₈
from Cigar Lake
under toll milling
agreement⁽³⁾

24M
lbs U₃O₈

Licensed
annual mill
capacity⁽²⁾

~7M
lbs U₃O₈

Excess licensed
mill capacity
Based on 2024
production from
Cigar Lake

10-Year
CNSC Operating
License⁽²⁾

Renewed in 2017
for operations up to
June 30, 2027

Orano
Canada Inc.

French nuclear
giant serves as site
operator and is
owner of 77.5%
interest

750km
north of
Saskatoon⁽⁴⁾

Accessible by road
over all-weather
highways and by air
via Points North

+50M
lbs U₃O₈

Historic uranium
production from
mined McClean
Lake deposits (JEB +
Sue A, B, C, & E)⁽⁴⁾

TMF
Expansion
Approved⁽²⁾

CNSC approval
obtained to
increase tailings
capacity

PHOTO:

Aerial view of Denison's
22.5% owned McClean
Lake mill facility.

NOTES:

(1) Per UxC's Q3' 2025
Uranium Market Outlook
and Cameco's
management's discussion
and analysis dated Feb.
20, 2025.

(2) See Denison's news
release dated Jan. 19,
2022.

(3) Denison monetized its
share of tolling revenues
from the Cigar Lake toll
milling agreement. See
Denison's news releases
dated Feb. 1, 2017 and
Feb. 13, 2017. Please also
refer to Denison's current
Annual Information Form
and Financial Statements
and Management,
Discussion and Analysis
for additional details
related to the toll milling
agreement.

(4) See Denison's current
Annual Information Form
for additional details
regarding the McClean
Lake mill facility.

22.5% Denison-owned McClean Lake Mine:

Mining restart achieved via SABRE mining method at McClean North deposit



SABRE Patented & Operating

Successful 5-year test mining program for “Surface Access Borehole Resource Extraction” (SABRE) mining method

SABRE is property of McClean Lake JV with patent issued in 2016

Restarted Mining June 2025

~85,000 lbs U₃O₈ (100% basis) produced in Q3’2025 at operating cash costs of ~US\$19/lb U₃O₈⁽¹⁾

17.8M
lbs U₃O₈
Indicated Mineral Resources⁽²⁾
(100% basis)

Combined 374,900 tonnes @ 2.2% U₃O₈

7.6M
lbs U₃O₈
Inferred Mineral Resources⁽²⁾
(100% basis)

Combined 510,900 tonnes @ 0.68% U₃O₈

2025 Activities

Mining activities for 2025 are planned to include eight SABRE cavities⁽³⁾

Orano Canada Inc.

French nuclear giant serves as project operator and is owner of 77.5% interest

8.67% U₃O₈ over 13.5 metres

Discovered “new” mineralization at McClean South⁽⁴⁾ in 2021 + expanded footprint in 2022 and 2025⁽⁵⁾

PHOTO:

2021 SABRE test mining program in action, with view of specialized mining pipes in inset photo.

NOTES:

(1) As of Sept 30, 2025, 100% basis. See Denison’s financial statements and MD&A for the three months ended Sept. 30, 2025 for details.

(2) See Denison’s current AIF for additional details regarding the McClean Lake deposits and SABRE mining method.

(3) See Denison’s financial statements and MD&A for the three months ended Sept. 30, 2025 for details.

(4) See Denison’s current AIF for additional details.

(5) See Denison’s news releases dated Sep. 8, 2022 and Jul. 21, 2025.

25.17% Denison-owned Midwest Property:
In-Situ Recovery PEA for Midwest Main leverages high-grades & proximity to McClean mill⁽¹⁾

38.7M lbs U₃O₈ @ 3.5% U₃O₈ Indicated Mineral Resources (100% basis, 510,000 tonnes)	c\$965M estimated Base-case after-tax NPV_{8%} (100% basis)⁽³⁾	c\$254M estimated Initial CAPEX (100% basis)
Plus... 12.6M lbs U₃O₈ Inferred mineral resources (100% basis, 905,000 tonnes @ 0.64% U₃O₈)	82.7% estimated Base-case after-tax IRR⁽³⁾	3.8 to 1 Base-case post-tax NPV to initial capital cost ratio
Approved EIS as Open Pit with processing at McClean Lake CNSC approved final EIS in 2012⁽²⁾	us\$11.69 / lbs U₃O₈ average Cash Operating Costs (C\$15.78/lb U₃O₈)	us\$25.78 / lbs U₃O₈ average All-in Cost⁽⁴⁾ (C\$34.80/lb U₃O₈)

PHOTO:

Aerial view of Midwest Project.

NOTES:

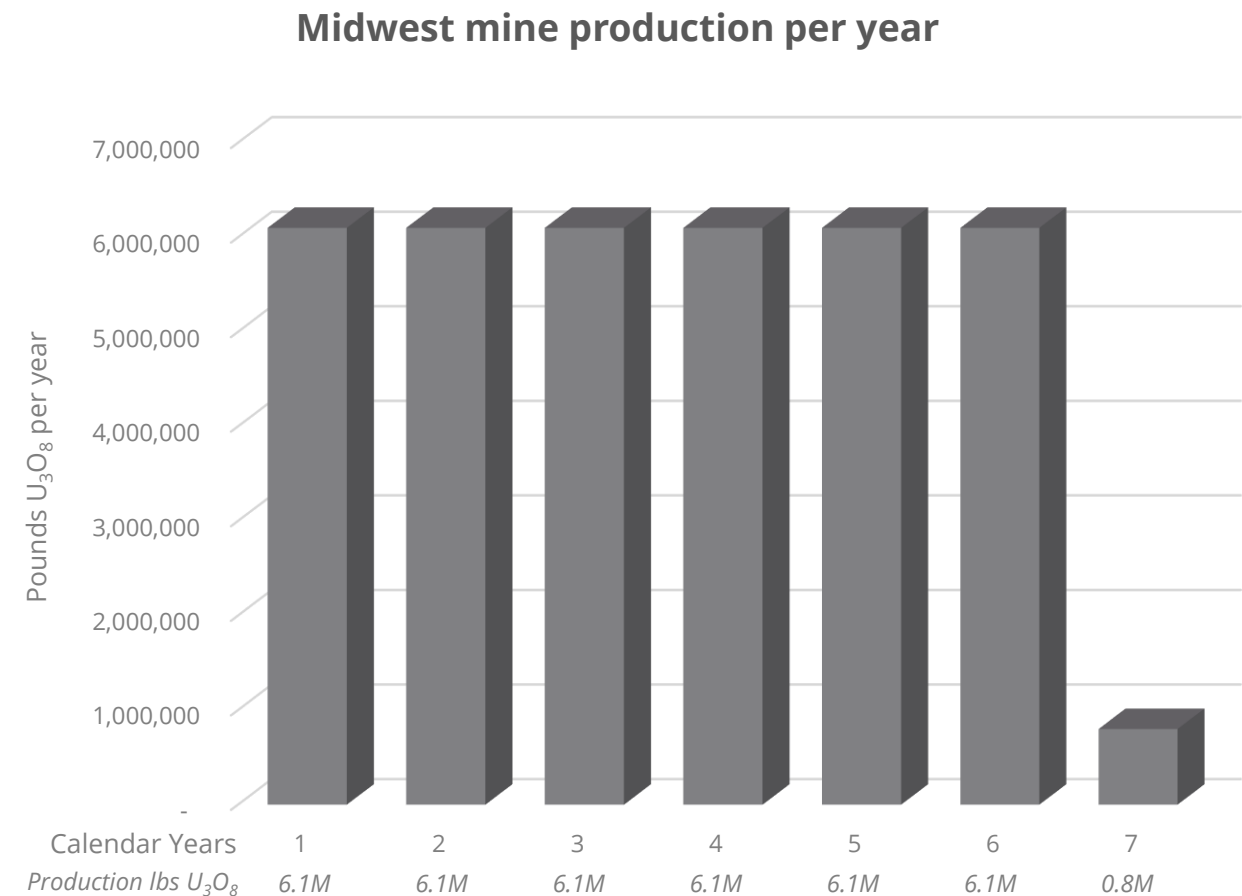
(1) See Denison's news release dated Aug. 6, 2025.

(2) See Denison's current Annual Information Form for additional details regarding the Midwest project.

(3) NPV and IRR are calculated to the start of construction activities for the Midwest project and excludes the C\$16.8M in pre-FID expenditures.

(4) All-in cost is estimated on a pre-tax basis and includes all project operating costs, capital costs post-FID, and decommissioning costs divided by the estimated number of pounds U₃O₈ to be produced.

Midwest ISR Preliminary Economic Assessment (2025)⁽¹⁾: Demonstrates economic and technical potential at the Midwest Main deposit



NOTES: (1) Refer to Denison’s news release dated Aug. 6, 2025; (2) NPV and IRR are calculated to the start of construction activities for the Midwest project and excludes \$16.8 million in pre-FID expenditures; (3) Payback period is stated as number of months to payback from the start of uranium production; (4) Post-tax NPV is estimated to be \$964.7.2 million in the Base Case; (5) Post-tax payback period is estimated to be ~9 months in the Base-Case; (6) Post-tax IRR is estimated to be 82.7% in the Base Case.

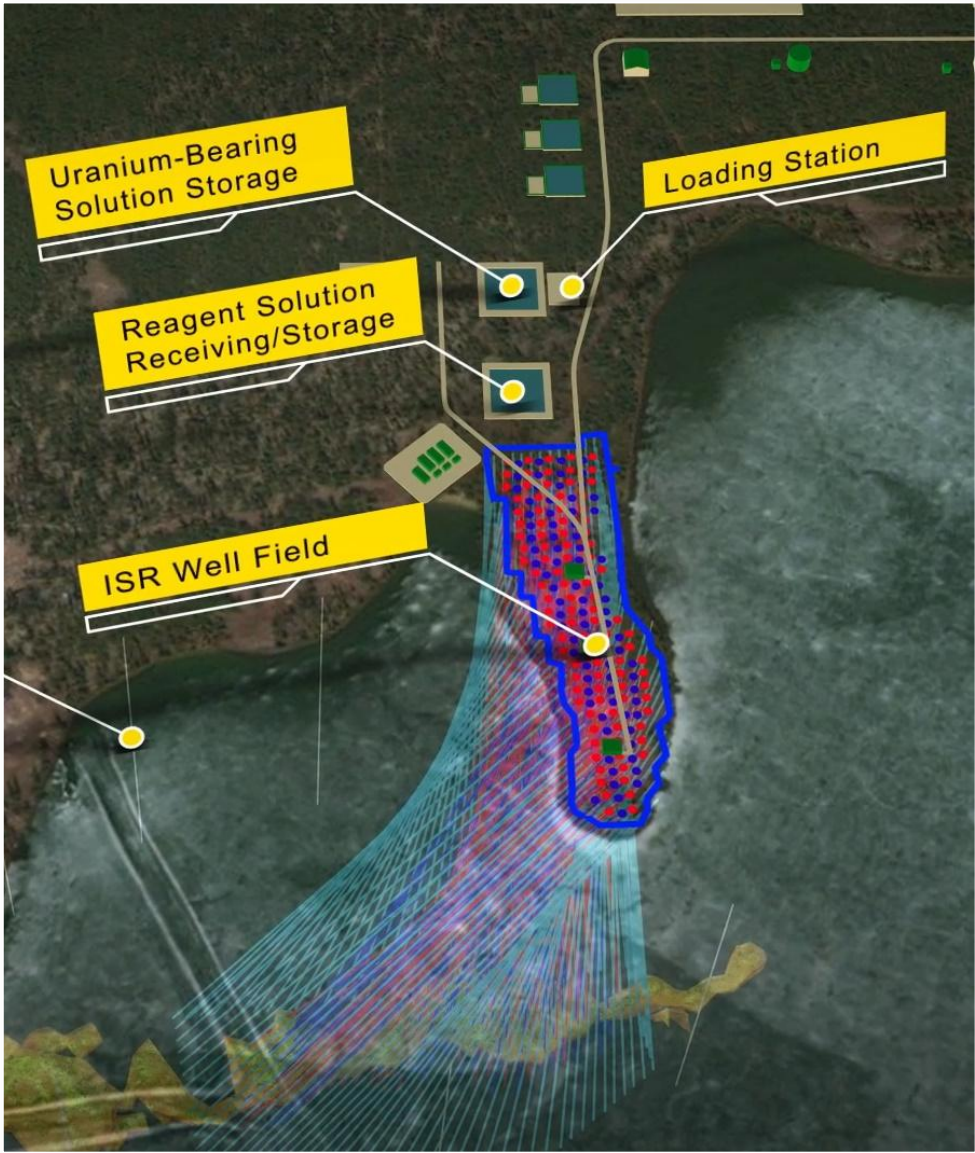
Payback period under 1 year
 for pre- and post-tax base-case scenarios

Evaluation of MLJV’s SABRE mining method also being advanced in parallel

37.4 million lbs U₃O₈ in potentially mineable resources (650,000 tonnes at 2.6% U₃O₈)

Assumptions / Results ⁽¹⁾	Base Case
Selling price / lb U ₃ O ₈	US\$80
USD:CAD FX Rate	1.35
Pre-tax NPV _{8%} ⁽²⁾⁽⁴⁾ (100%)	\$1.62 billion
Pre-tax payback period ⁽³⁾⁽⁵⁾	~6 months
Pre-tax IRR ⁽²⁾⁽⁶⁾	111.1%

70.55% owned Waterbury Lake project:
PEA (2020) shows potential for ISR to change uranium mining landscape in Canada⁽¹⁾



ISR Mining Method

Tthe Heldeth Túé (“THT”) deposit (formerly J Zone) designed as a low-cost ISR operation with freeze wall design

Uranium Bearing Solution (“UBS”) to be transported by truck to McClean Lake mill for toll processing

Minimal site infrastructure

Successful 2023 ISR field test⁽²⁾

Partnership

with consortium led by state-owned nuclear company Korea Hydro Nuclear Power (“KHNP”)

1.6M lbs
lbs U₃O₈

Average annual production over 6 years (100% basis)

c\$112M

estimated Initial CAPEX (100% basis)

us\$12.23 / lbs U₃O₈

average Cash Operating Costs

(C\$16.27/lb U₃O₈)

us\$24.93 / lbs U₃O₈

average All-in Cost⁽³⁾

(C\$33.16/lb U₃O₈)

c\$265M

estimated Pre-Tax NPV_{8%} (100% basis)

US\$65/lb U₃O₈ selling price (see note 4, 5)

50.0%

estimated Pre-Tax IRR

US\$65/lb U₃O₈ selling price (see note 4, 6)

PHOTOS:

Aerial rendering of surface facilities for the THT ISR operation

NOTES:

(1) Refer to the Waterbury Lake Technical Report titled “Preliminary Economic Assessment for the Tthe Heldeth Túé (J Zone) Deposit, Waterbury Lake Property, Northern Saskatchewan, Canada” dated Oct. 30, 2020.

(2) See Denison’s news release dated Nov. 6, 2023

(2) All-in cost is estimated on a pre-tax basis and includes all project operating costs and capital costs divided by the estimated number of finished pounds U₃O₈ produced.

(3) NPV and IRR are calculated based on assessed “high-case” uranium price, to the start of pre-production activities.

(4) Post-tax NPV attributable to Denison’s then 66.90% interest is estimated to be between \$72 million (base-case) and \$109 million (\$65/lb high-case).

(5) Post-tax IRR attributable to Denison’s then 66.90% interest is estimated to be between 30.4% (base-case) and 38.9% (\$65/lb high-case).

Environmental, Social, Governance & Indigenous (ESG+I)

Fundamental considerations driving Denison's operations



Multiple Indigenous Agreements

- **Shared Prosperity Agreement** with English River First Nation⁽⁴⁾
- **Mutual Benefits and Community Benefit Agreements** with Kineepik Métis Local #9 and the Village of Pinehouse⁽⁵⁾
- **Participation/Funding and/or Exploration Agreements** Ya'thi Néné Lands & Resources Office⁽⁶⁾ and Métis Nation – Saskatchewan⁽⁷⁾

Comprehensive ESG Reporting

Designed to address GRI, SASB, TCFD and other global disclosure frameworks

Board approved Indigenous Peoples Policy

First-in-sector policy reflecting Denison's commitment to take action towards advancing reconciliation with Indigenous peoples in Canada⁽¹⁾

Strong EHS&S Culture & Results

One lost time injury across all operations and no significant environmental events for 2024⁽⁸⁾

Top 115 in Canada

Leading Governance Practices & Disclosure

Denison recognized by Globe & Mail "Board Games" as **top uranium developer** for corporate governance practices & disclosure in its assessment of leading companies and trusts included in Canada's benchmark S&P/TSX Composite Index^(2, 3)

Authentic Social Programs

Denison's community / social investment program targets community-based initiatives

PHOTO: Highlights of the Elders of Sakitawak's market garden in Ile a la Crosse, a community-based initiative sponsored by Denison.

NOTES:
(1) See news release dated Dec. 2, 2021.

(2) For more information: <https://www.theglobeandmail.com/business/careers/management/board-games/article-canada-corporate-boards-ranking-2024/>

(3) See Denison's news release dated Mar. 15, 2021.

(4) See news release dated Sep. 27, 2023.

(5) See news release dated Jul. 11, 2024.

(6) See news release dated Oct. 20, 2022.

(7) See MD&A for the period ended Dec. 31, 2022.

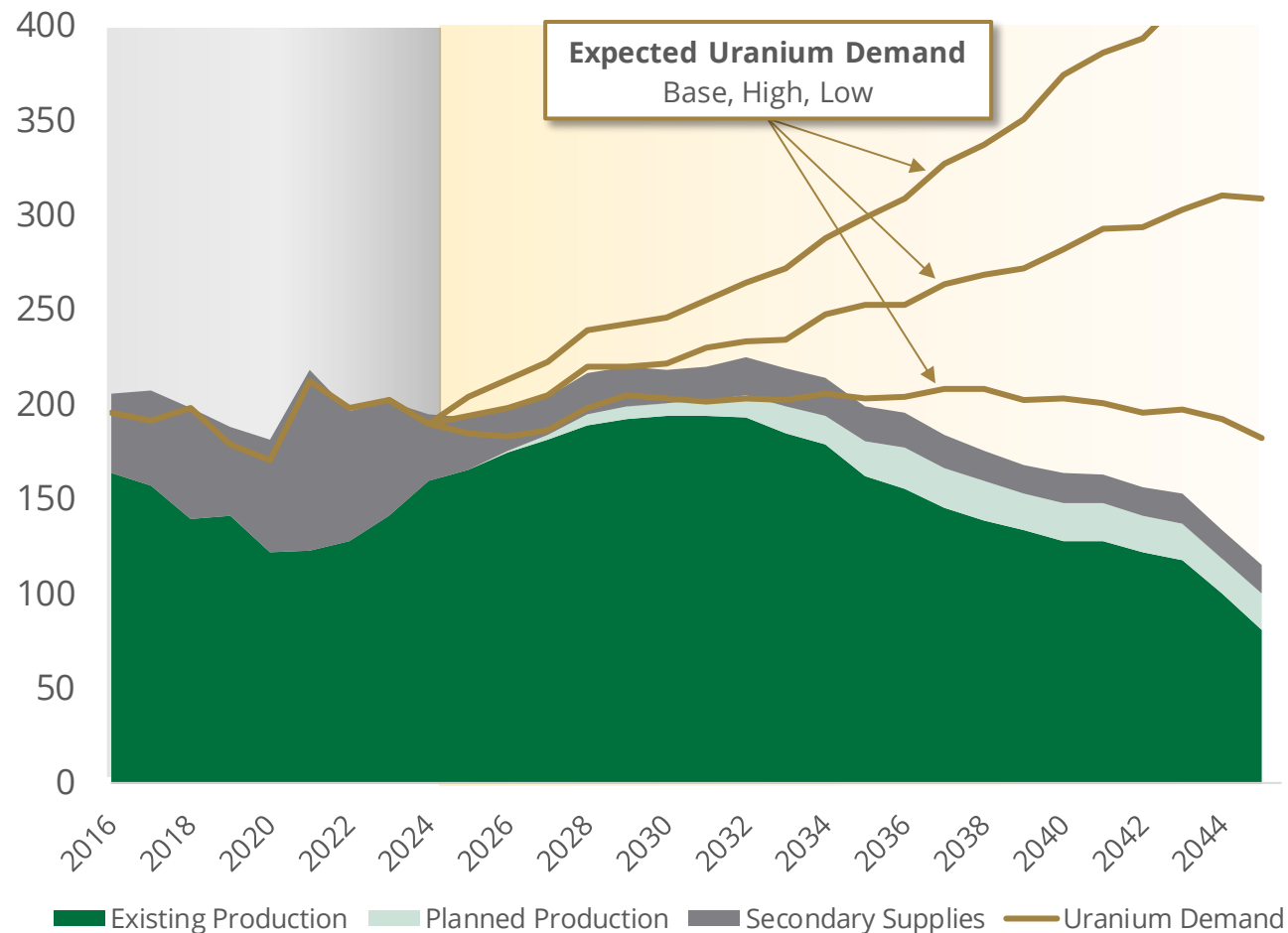
(8) See Denison's AIF for additional details.

The Uranium Investment Thesis:

Growing supply deficit → higher prices required to incent new supply

Estimated Global Uranium Supply & Demand⁽¹⁾

(million pounds U₃O₈ - per UxC Q3'2025)



Key Market Themes:

- Draw down of surplus inventories during period of production curtailments led transition to production-cost focused market
- First phase of supply response from incumbent producers insufficient to meet demand projections
- Market expected to enter period of projected sustained structural supply shortage, with mine production deficit in 2025 estimated at ~14% of demand
- Geopolitical events highlighting importance of reliable / Western sources of supply
- Demand yet to factor in significant small modular reactors (SMRs) growth, despite progress towards deployment for the late 2020s⁽²⁾
- Anticipated increase in demand growth on the horizon with commitment of 30+ countries at COP29 to triple nuclear power capacity by 2050

NOTES: (1) Data in this slide has been derived from UxC's Uranium Market Outlook dated Q3'2025, including supply & demand estimates and market balance figures.
(2) OPG projects completion of SMR at Darlington by 2028, as stated on corporate website.

Mineral Reserves & Resources as of December 31, 2024



Mineral Reserves (see Notes 1, 2, 3, 4, 8, 9)				100% Basis	Denison Share ⁽⁶⁾
Project/Deposit	Tonnes	Grade % U ₃ O ₈	Lbs U ₃ O ₈ (,000)	Lbs U ₃ O ₈ (,000)	
McClean - Ore Stockpile (Proven)	90,000	0.37	700	200	
Wheeler River - Phoenix (Proven)	6,300	24.5	3,400	3,200	
Wheeler River - Phoenix (Probable)	212,700	11.4	53,300	50,600	
Wheeler River - Gryphon (Probable)	1,257,000	1.8	49,700	47,200	
Total Proven & Probable Reserves	1,566,000		107,100	101,200	

Measured & Indicated Mineral Resources (see Notes 1, 5, 8, 9)				100% Basis	Denison Share ⁽⁶⁾
Project/Deposit	Tonnes	Grade % U ₃ O ₈	Lbs U ₃ O ₈ (,000)	Lbs U ₃ O ₈ (,000)	
Wheeler River - Phoenix ⁽⁵⁾ (Measured)	64,200	21.8	30,900	29,400	
Wheeler River - Phoenix ⁽⁵⁾ (Indicated)	216,000	8.3	39,700	37,700	
Wheeler River - Gryphon ⁽⁵⁾ (Indicated)	1,643,000	1.7	61,900	58,800	
McClean – Sue D (Indicated)	122,800	1.1	2,800	600	
McClean – Sue F (Indicated)	47,800	2.6	2,800	600	
McClean - McClean North (Indicated)	204,300	2.8	12,200	2,700	
Midwest - Midwest Main (Indicated) ⁽¹⁰⁾	510,000	2.9	38,700	9,700	
Midwest - Midwest A (Indicated)	566,000	0.87	10,800	2,700	
Waterbury – THT (Indicated)	291,000	2.0	12,800	9,000	
Total Measured & Indicated Resources	3,665,100		212,600	151,200	

Inferred Mineral Resources (see Notes 1, 8, 9)				100% Basis	Denison Share ⁽⁶⁾
Project/Deposit	Tonnes	Grade % U ₃ O ₈	Lbs U ₃ O ₈ (,000)	Lbs U ₃ O ₈ (,000)	
Wheeler River - Phoenix ⁽⁵⁾	5,600	2.6	300	300	
Wheeler River - Gryphon ⁽⁵⁾	73,000	1.2	1,900	1,800	
McClean - Sue D	24,200	0.39	200	0	
McClean - Sue E	483,400	0.69	7,300	1,600	
McClean - McClean North	3,300	0.79	100	0	
Midwest - Midwest Main ⁽¹⁰⁾	905,000	0.64	12,600	3,100	
Midwest - Midwest A	53,000	5.8	6,700	1,700	
Waterbury - Huskie	268,000	0.96	5,700	4,000	
Christie Lake	588,000	1.57	20,400	3,500	
Total Inferred Resources	2,403,500		55,200	16,000	

Historic Mineral Resources (see Notes 8, 9)				100% Basis	Denison Share ⁽⁷⁾
Project/Deposit	Tonnes	Grade % U ₃ O ₈	Lbs U ₃ O ₈ (,000)	Lbs U ₃ O ₈ (,000)	
Millennium (Indicated)	1,442,600	2.39	75,900	11,400	
Kiggavik (Indicated)	10,418,000	0.55	127,300	21,500	
Tot. Historic Indicated Resources	11,860,600		203,200	32,900	
Millennium (Inferred)	412,400	3.19	29,000	4,400	
Kiggavik (Inferred)	733,000	0.33	5,400	900	
Tot. Historic Inferred Resources	1,145,400		34,400	5,300	

NOTES: (1) See AIF for details for further details, including cut-off grades used for mineral reserve and mineral resource estimates. CIM definitions were followed for classification of mineral reserves and mineral resources. Mineral resources are not mineral reserves and do not have demonstrated economic viability. (2) Mineral reserves are estimated at a cut-off grade of 0.5% U₃O₈ based on the ISR mining method, using a long-term uranium price of US\$50/lb U₃O₈ and a CA\$/US\$ exchange rate of 1.33. The mineral reserves are based on a mine operating cost of \$0.78/lb U₃O₈, process operating cost of \$5.20/lb U₃O₈, and process recovery of 99%. The effective date of the mineral reserve estimate is June 23, 2023. A mine recovery of 80.6% has been applied to convert the mineral resources to mineral reserves. Recoverable U₃O₈ refers to ISR recoverable and does not account for process losses. (3) The effective date of the mineral reserves is September 1, 2018. Mineral reserves for the Gryphon deposit are estimated at a cut-off grade of 0.58% U₃O₈ based on longhole mining using a long-term uranium price of US\$50/lb and a US\$/CA\$ exchange rate of 0.8. The mineral reserves are based on a mine operating cost of \$150/t, mill operating cost of \$275/t, G&A cost of \$99/t, transportation cost of \$50/t, milling recovery of 97%, and 7.25% fee for Saskatchewan royalties. Mineral reserves include for diluting material and mining losses. (4) Mineral reserves are stated at a processing plant feed reference point and include diluting material and mining losses. (5) Measured & Indicated mineral resources for Phoenix and Gryphon deposits are inclusive of mineral reserves. (6) As at December 31, 2024, pursuant to the terms of the agreements with its applicable joint venture partners, the Company had an effective 95.00% interest in the Wheeler River project, a 22.50% interest in the McClean Lake property; a 25.17% interest in the Midwest project; and a 70.32% interest in the Waterbury Lake property. (7) Denison's share has been calculated as 50% of the product of JCU's percentage interest in the applicable project multiplied by the estimated mineral resources on a 100% basis. (8) Numbers may not add due to rounding. (9) See AIF for all details of mineral reserves and mineral resources, including historical estimates. (10) See Denison news release dated Aug. 6, 2025 for details on mineral resources at Midwest Main deposit.

Capital Structure & Corporate Information

Market Summary⁽¹⁾

Exchanges	DML LISTED TSX DNN LISTED NYSE AMERICAN
Shares Outstanding	896.2 M
Share Purchase Warrants	-
Share Units	8.1 M
Options	6.4 M
Fully Diluted Shares	910.7 M

DML (TSX)	
Market Cap @ C\$4.47/share ⁽²⁾	CAD \$4.0B
Daily Trading Volume ⁽³⁾	8.9M Shares

DNN (NYSE American)	
Market Cap @ US\$3.17/share ⁽²⁾	USD \$2.8B
Daily Trading Volume ⁽³⁾	82M Shares

Management

- David Cates (President & CEO, Director)
- Elizabeth Sidle (VP Finance & CFO)
- Kevin Himbeault (VP Operations)
- Geoff Smith (VP Corp. Dev. & Commercial)
- Mary Jo Smith (VP Human Resources & Admin.)
- Chad Sorba (VP Tech. Services & Project Eval.)
- Janna Switzer (VP Env., Sustainability & Regulatory)
- Amanda Willett (VP Legal & Corp. Sec.)
- David Bronkhorst (Technical Advisor)

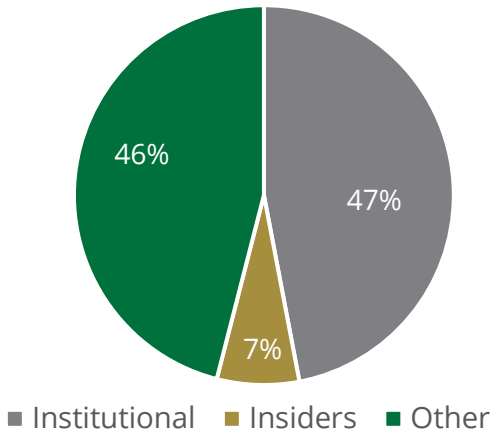
Board of Directors

- Jennifer Traub (Non-Executive Chair)
- David Cates (President & CEO, Director)
- Jinsu Baik (KHNP Nominee)
- Wes Carson
- Ken Hartwick
- David Neuburger
- Laurie Sterritt
- Patricia Volker
- Ron Hochstein (Board Advisor)

Analyst Coverage⁽⁴⁾

- BMO (Alexander Pearce)
- Canaccord Genuity (Katie Lachapelle)
- Cantor Fitzgerald (Mike Kozak)
- CIBC (Anita Soni)
- Cormark (Nicolas Dion)
- Desjardins (Bryce Adams)
- Haywood (Marcus Giannini)
- National Bank (Mohamed Sidibé)
- Paradigm Capital (Gordon Lawson)
- Raymond James (Brian MacArthur)
- Roth (Joe Reagor)
- Scotiabank (Orest Wowkodaw)
- TD Cowen (Craig Hutchison)

Shareholders⁽⁵⁾



Website:
www.denisonmines.com

X (formerly Twitter):
@DenisonMinesCo

Email:
IR@denisonmines.com

NOTES:

(1) Share capital information as of Nov 6, 2025 (MD&A for the period ended Sept. 30, 2025).

(2) Based on basic shares outstanding at Nov 6, 2025 (MD&A for the period ended Sep. 30, 2025) and DML/DNN share prices as of the end of Oct. 2025.

(3) Average daily trading volume over previous 3 months as of the end of Oct. 2025. Canadian trading includes all Canadian exchanges.

(4) As of Oct. 31, 2025.

(5) Shareholder information is estimated as of Dec. 31, 2024. Information is provided for indicative purposes only. Institutional holdings are estimated based on information available on Bloomberg. Insider holdings are estimated based on applicable filings and includes estimated holdings from entities entitled to appoint a nominee to the Board of Directors. Other holdings are determined as shares outstanding less those reported as institutional and insider holdings. Share ownership is subject to change.