

Developing Canada's Uranium Assets in Pursuit of a Clean Energy Future

CSE: SASK

FRA : **X5U**

OTCQB: SASKF





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An Unprecedented Uranium Cycle

ATHA was developed to align with the strongest nuclear energy climate and uranium tailwinds seen in decades



Pursuit of Net-Zero Emissions

Nuclear has become the clear solution to net zero energy emissions strategies.



Emerging Production Gap

A large gap in production is projected to emerge and may be evidenced by uranium price appreciation.



Geopolitical Supply Uncertainty

Demand is driven by OECD countries, while over 76% of supply is embedded with geopolitical risk.



New Demand and Adoption

Nuclear acceptance is accelerating, and small modular reactors have gained mainstream approval.



PURSUIT OF NET ZERO EMISSIONS

Nuclear energy represents a solution to net zero energy policy



Emission-Free

As the lowest CO_2 energy option, nuclear is the best choice for governments looking to achieve their stated climate objectives.¹



Mass Scale

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



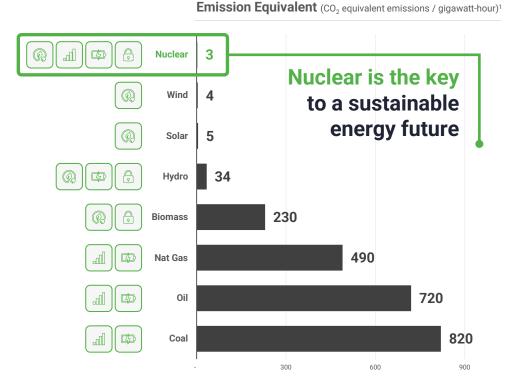
Baseload Capacity

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



Stable Supply

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

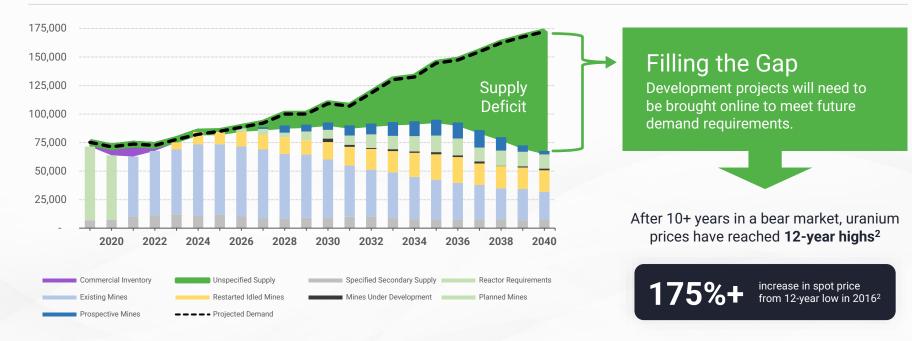


¹ Our World in Data; U.S. Department of Energy ² The Nuclear Fuel Report; 2021 ³ World Nuclear Association



EMERGING PRODUCTION GAP

A structural gap exists in the uranium market



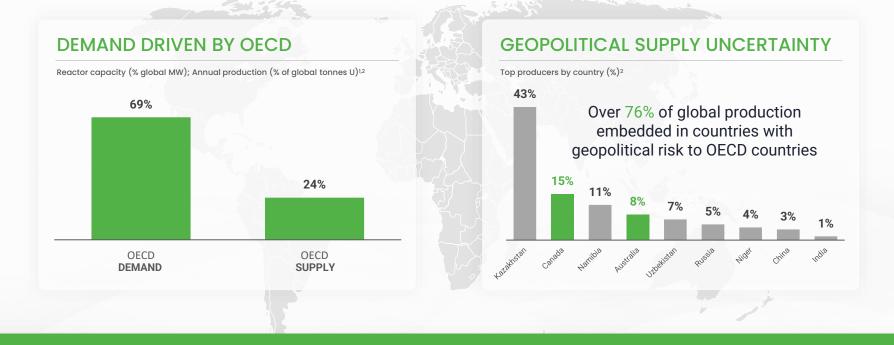
Projected Supply and Demand of Uranium (tonnes U)¹

¹The World Nuclear Fuel Report; 2021 ²Trading Economics; Uranium



GEOPOLITICAL SUPPLY UNCERTAINTY

Significant need for stable North American uranium supply



Canada hosts 10% of the world's uranium resources and is ready to lead the development of new stable supply

¹International Atomic Energy Agency, Power Reactor Information System; In Operation Reactor Capacity ²World Nuclear Association; World Uranium Mining Production

NEW DEMAND AND ADOPTION

Nuclear energy continues to gain traction alongside innovation of small modular reactors

The International Atomic Energy Agency (IAEA) defines 'small' as under 300 MWe, and up to about 700 Mwe.



September 5, 2023: Oklo selected for Alaska airbase microreactor September 1, 2023: Japan, U.K. to agree on building demo of next generation nuclear plant September 1, 2023: Czech PM suggests four new nuclear units needed August 25, 2023: Saudi Arabia eyes Chinese bid for nuclear plant August 21, 2023: Federal funds announced for Saskatchewan SMR project August 9, 2023: Swedish government plants to build at least 10 new nuclear reactors August 9, 2023: Hydro-Quebec mulls reviving province's nuclear reactor July 29, 2023: Agreement reached for extended operation of Belgian reactors July 23, 2023: Biden, Modi affirm commitment to nuclear July 9, 2023: US-UK declaration incudes nuclear partnership July 6, 2023: First US nuclear reactor in 40 years goes online in Georgia

SK



THE ATHABASCA BASIN

Home to the largest and highestgrade uranium deposits in the world¹

Over 900 million lbs of U₃O₈ produced since 1975¹

Known resources of 606,600 tonnes of U_3O_8 and significant room for exploration, the Athabasca Region is critical for future demand¹

Covering 100,000 km² across Saskatchewan and Alberta²

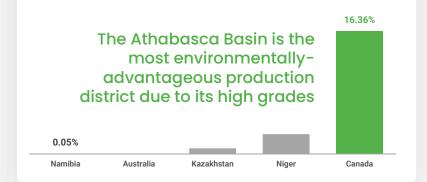
In the Fraser Institute mining survey, Saskatchewan was ranked 2nd in the world for overall investment attractiveness³

HIGHEST GRADES IN THE WORLD

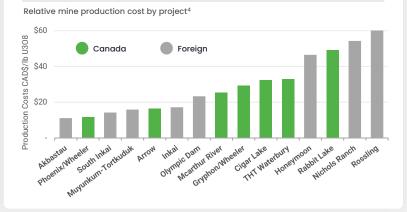
Highest uranium grade of notable mine by production country¹ (Grade $\% U_3 O_8$)

Athabasca Basin

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LOW PRODUCTION COST POTENTIAL



³ Fraser Institute; 202

⁴ Denison Mines Corporate Presentation; UxC Worldwide Production Costs from Uranium Production Cost Study; Pre-feasibility Study Report for the Wheeler River Uranium Project, Saskatchewan, Canada; Tthe Heldeth Túé (J Zone) Deposit, Waterbury Lake Property, Northern Saskatchewan, Canada

¹Using the highest grade of notable mines in each country; The 10 biggest uranium mines in the world; Mining Technology ² Canada's Athabasca Basin, the World's Richest Uranium Play; Investor Intel ; 2021

Our Foundation



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Our People

A management and technical team with Athabasca Basin-specific uranium development expertise, including with Cameco and NexGen Energy, and strong capital markets presence.

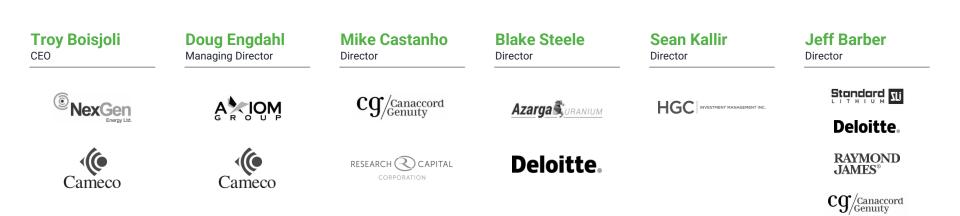


Our Assets

3.4 million acres of land across four exploration districts, with the potential to host all deposit models currently existing in the Basin, and upside to key NexGen Energy and IsoEnergy land.

Our Strategy

Leveraging modern geophysical and geochemical technology to define and develop uranium resources, while aggressively pursuing farmout and M&A opportunities through financial flexibility.





Capitalization	Millions	
Basic Shares Outstanding Post-Listing	126.6	
Options Outstanding	7.0	
Restricted Share Units	2.3	
Fully-Diluted Shares Outstanding Post-Listing	135.9	

Cash Position¹

\$33 million

Board, Management, & Insider Ownership

36%

¹ As at Q2 Financial Statements; June 30, 2022

ATHA ENERGY CORP. Capital Structure

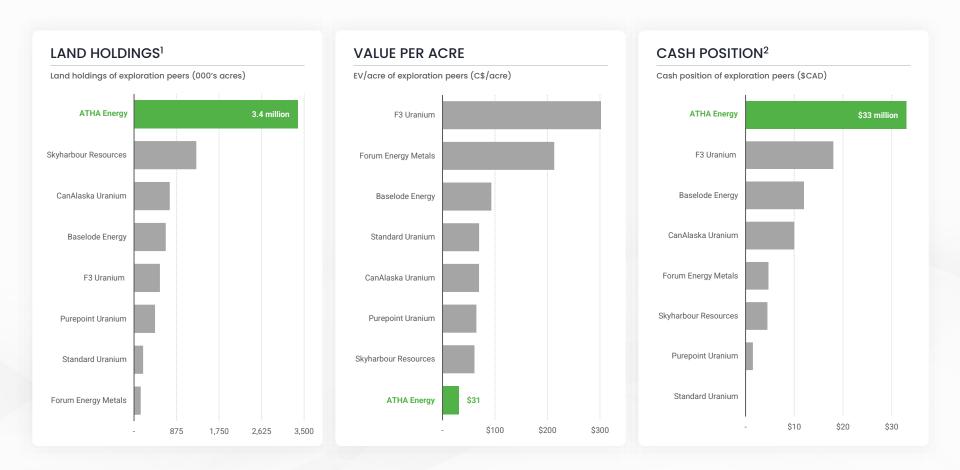


ATHA's large land exposure offers access to Athabasca Basin uranium upside at a deeply discounted value to exploration peers

Company	Ticker	Share Price (C\$) ¹	Shares Outstanding (MM) ²	Cash (MM)	Enterprise Value (MM)	2022 Production (MM lbs)	Resource Estimate (MM Ibs) ³	Land Position (Acres)	EV/Acre
PRODUCTION									
Cameco	TSX: CCO	\$50.64	433.5	\$2,454.0	\$19,987.6	13.7	451.4	n/a	n/a
DEVELOPMENT									
NexGen Energy	TSX: NXE	\$7.60	545.9	\$100.6	\$4,071.2	n/a	256.7	n/a	n/a
Denison Mines	TSX: DMI	\$1.99	854.1	\$46.5	\$1,645.2	n/a	151.2	n/a	n/a
Fission Uranium	TSX: FCU	\$0.76	806.5	\$47.5	\$565.7	n/a	114.9	n/a	n/a
ISO Energy	TSXV: ISO	\$3.87	132.8	\$11.4	\$502.4	n/a	48.6	n/a	n/a
EXPLORATION									
F3 Uranium	TSXV: FUU	\$0.41	475.5	\$18.0	\$175.4	n/a	n/a	532,267	\$329.5
Skyharbour Resources	TSXV: SYH	\$0.43	192.1	\$4.5	\$78.1	n/a	n/a	1,280,750	\$61.0
Baselode Energy	TSXV: FIND	\$0.48	129.8	\$12.0	\$60.8	n/a	n/a	652,782	\$93.1
CanAlaska Uranium	TSXV: CVV	\$0.42	168.6	\$10.0	\$51.2	n/a	n/a	735,064	\$69.6
Forum Energy Metals	TSXV: FMC	\$0.12	282.8	\$4.7	\$29.1	n/a	n/a	136,884	\$212.8
Purepoint Uranium	TSXV: PTU	\$0.05	587.9	\$1.5	\$27.9	n/a	n/a	432,703	\$64.5
Standard Uranium	TSXV: STND	\$0.05	262.6	\$0.0	\$13.1	n/a	n/a	187,542	\$69.9
Exploration Average		n/a	n/a	\$7.3	\$62.2	n/a	n/a	565,427	\$128.6
ATHA Energy	CSE: SASK	\$1.02	135.9	\$33.0	\$106	n/a	n/a	3,365,718	\$31.4



ATHA's large land exposure offers access to Athabasca Basin uranium upside at a deeply discounted value to exploration peers

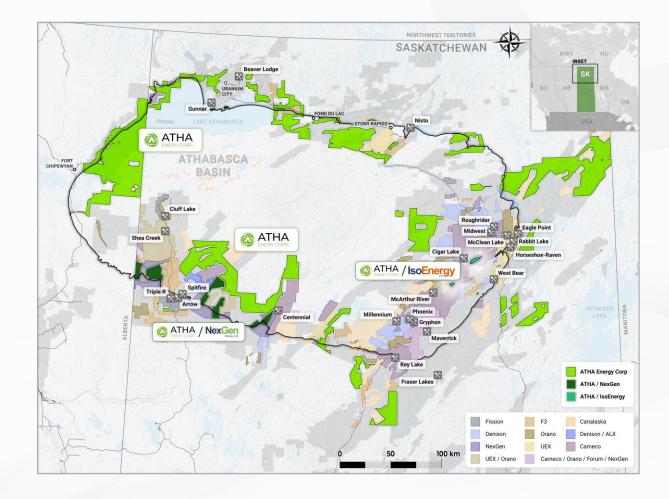




The Basin's largest land package

3.4 million acres

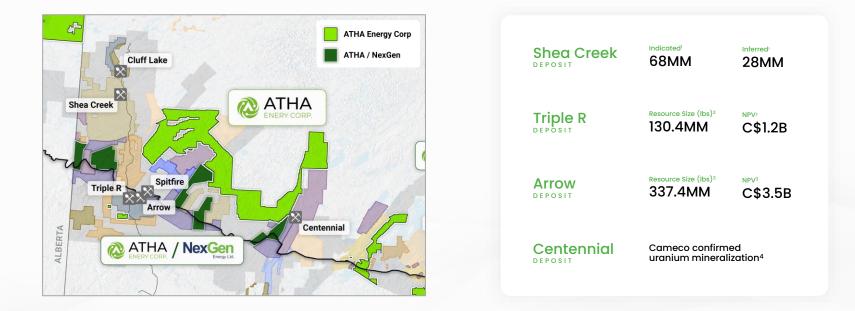
Carefully accumulated over **10+ years** by the most successful uranium staking team in Canada







ATHA holds upside in key land held by NexGen Energy via 10% carried interest



NexGen Energy's 2023 summer exploration program includes drilling activity on ATHA's 10% carried interest acreage

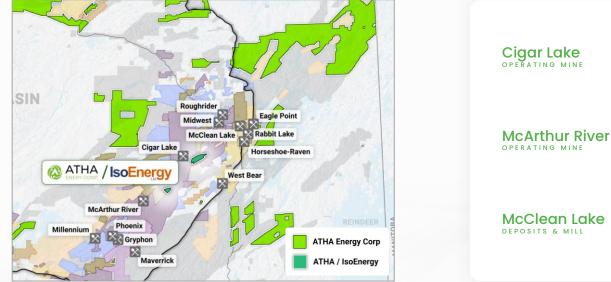
¹ Uranium Energy Corp corporate website; NPV is calculated after-tax and at a discount rate of 8%

³ NexGen Energy Ltd. corporate website; NPV is calculated after-tax and at a discount rate of 8% ⁴ Cameco Corp confirms uranium mineralization at Canada's Centennial Deposit; NS Energy





ATHA holds upside in key land held by IsoEnergy via 10% carried interest





 275MM lbs proven & probable reserves¹

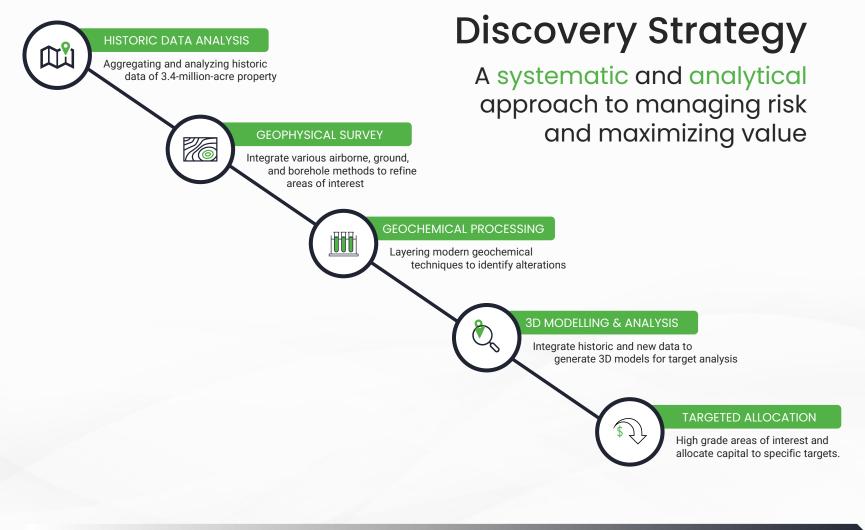
McClean Lake

- One of the largest uranium processing facilities
- Annual licensed production of 24MM lbs²

ATHA's carried interest with IsoEnergy is located amongst the Basin's most actively developed areas with significant infrastructure in place

> ¹Cameco corporate website ² Denison Mines corporate website





REDUCED UNCERTAINTY

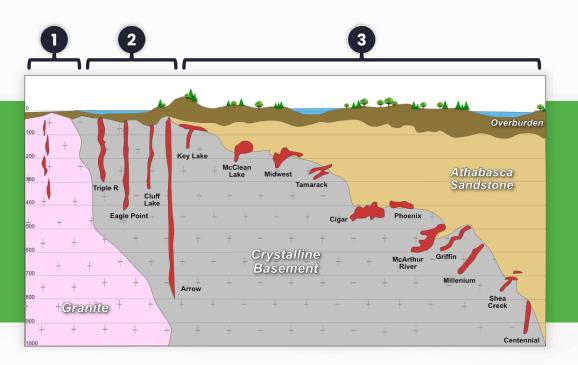
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PROBABILITY

IMPROVE



Targeting All Basin Deposit Models



1

Review of ATHA's exploration districts show **potential to host all Basin deposit models**

Beaverlodge Style

- · Vein-hosted, near-surface deposits
- Geophysics that can differentiate magnetic highs, conductor corridors, and radiometrics can be used to vector high-priority targets

Basement Hosted

- These deposits are structurally controlled, high grade, and in competent crystalline basement rocks
- Can be conventionally mined and are typically located near the margin of the Basin



Unconformity Hosted

- The primary source of current uranium supply
- Ultra high-grade deposits
- Advancements in ISR technology has opened exploration to areas of greater depths

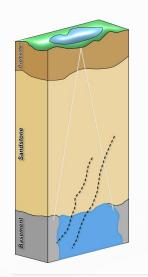
3

Leveraging Modern Technology



Utilizing Historic Data

Utilizing historic exploration data from previous ownership

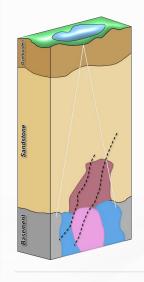


ATHA gains a general understanding of ownership geography and recognizes deficiencies within the dataset

Regional/historic geophysics and structure

Geophysical Surveys

Methods include, QMAGT, Xcite, MobileMT, ZTEM, VTEM



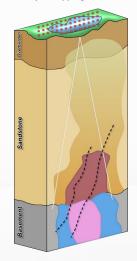
ATHA gains an enhanced understanding of structure and can begin preliminary target generation

> Regional/historic geophysics and structure Higher resolution on basement lithology

Hydrothermal alterations

Geochemical Processing

Surface soil, lake sediment, rock, and hyperspectral sampling, radiometric surveys, mapping



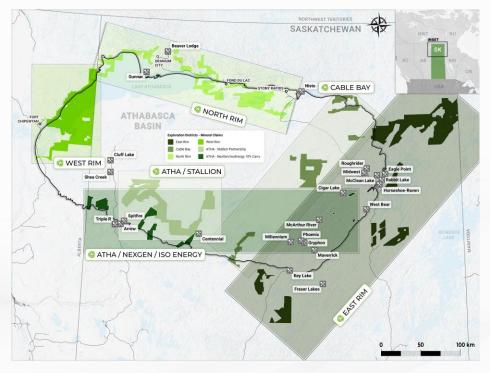
ATHA can specifically identify composition of alterations and assess uranium presence for further capital allocation





MAIDEN EXPLORATION PROGRAM

ATHA is undertaking the largest ever multi-platform electromagnetic survey in the history of the Athabasca Basin



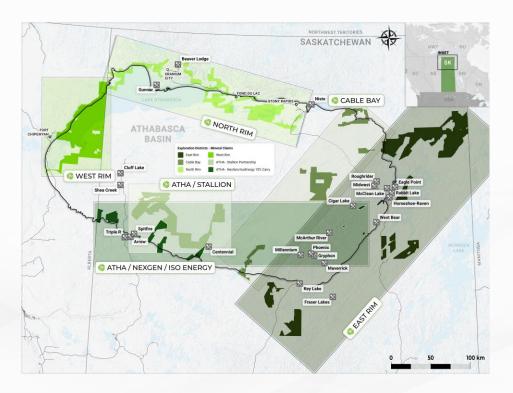
PROGRAM OVERVIEW

COVERAGE	2.1 million acres
GOAL	Retain the largest contiguous plot of data using modern geophysical tools
PROPERTIES	East Rim, Cable Bay, North Rim
TECHNOLOGY	QMAGT, Xcite, MobileMT, ZTEM, VTEM
MODELS	Beaverlodge, basement hosted, unconformity hosted
DEPTH RANGE	0m – 1,000m
START DATE	June '23



MAIDEN EXPLORATION PROGRAM

ATHA is initially targeting three of four exploration districts for discovery



East Rim

- Area is the focus of most historic exploration and uranium production in the past 60 years
- Depth to this unconformity ranges from 0m outside of the Basin margin to depths in excess of 500m near the McArthur River mine
- ATHA is deploying 3 EM systems across six subsections to identify structural corridors and targets for follow-up in 2024

Cable Bay

- Geophysical technology advancement has increased depths of investigation to over 800m
- This shear zone has been projected to extend across the width of the Athabasca basin but at depths previously difficult to evaluate
- ATHA is deploying MobileMT to evaluate deep areas and Xcite TDEM systems to evaluate shallower areas

North Rim

- Historic exploration in the North Rim began in the early to mid 1900s, production was tied to mines near Uranium City
- ATHA has a significant presence in the northwestern quadrant with potential for all unconformity related and Beaverlodge-type deposits
- Preliminary evaluation identified potential in all six subsections. ATHA plans to conduct further surveys in August and September

West Rim

- The West Rim is a district of land located in Alberta that is largely underexplored for uranium purposes
- ATHA is in the planning and program optimization stage for the West Rim



Building a strong foundation for shareholder value creation



2023 - 2024

GROWTH ACCELERATION STRATEGY

M&A Mandate

To accelerate asset aggregation, ATHA is positioned to evaluate and pursue an aggressive M&A strategy to secure accretive assets

Farm-Out Agreements

Leveraging its large land portfolio, ATHA intends to engage in farm-out agreements to accelerate exploration efforts

Uniquely Established for Growth



Largest Property Holder in the Athabasca Basin

Exploring the largest held land package in highest grade basin in the world – 3.4 million acres in the Athabasca Basin.^{1,2}



Exposure to NexGen Energy and IsoEnergy

Exposure via 10% carried interests on key exploration blocks⁺ owned and operated by two of the most successful development teams in Basin: NexGen Energy & IsoEnergy.³ ATHA Energy is a uniquely-equipped vehicle for an unprecedented uranium cycle

EXPLORE

DEVELOP

CONSOLIDATE

¹ DigiGeoDato ² World Nuclear Associatior ³ Excludes NexGen Arrow Deposit and IsoEnergy Hurricane Deposi



Dual Track Approach to Growth

ATHA is leveraging its land position, strong balance sheet, high insider and institutional ownership, tight capital structure, and capital markets expertise to dual track organic growth and M&A.



Securing Canada's next generation of uranium supply

CSE: SASK FRA: X5U OTCQB: SASKF

September 2023 Corporate Presentation

Leadership Team



Troy Boisjoli CEO

Mr. Boisjoli brings extensive experience in developing uranium assets both internationally and in the Athabasca Basin. Mr. Boisjoli's experience within the Athabasca Basin most notably includes his role as Vice President Operations and Project Development as well as Vice President Exploration and Community for NexGen Energy Ltd., where he led a team through the development of the Arrow Deposit – considered to be the largest, highgrade uranium development project in the world.¹ Prior to joining NexGen Energy in 2016, Mr. Boisjoli worked as an exploration geologist for Cameco Corporation on projects throughout northern Saskatchewan and Australia. In Saskatchewan, Mr. Boisjoli served as the Chief Geologist at the underground Eagle Point uranium mine, where his team increased the mineral resources threefold, while reducing drilling and discovery costs.

Mike Castanho Director

Mr. Castanho is the principal of Axis Capital Ventures Corp., a private investment firm specializing in venture capital and advisory services since October 2019. Prior to founding Axis Capital, Mr. Castanho spent sixteen years in financial services with national investment firms, raising capital across a broad range of industries and advising investments for high-net-worth individuals, institutions, and family offices. Mr. Castanho is a graduate of the Finance Program at British Columbia Institute of Technology as of 2004.

Jeff Barber Director

Mr. Barber has worked closely with various public company boards and executive teams to assist in capital markets initiatives and advise on go-public transactions, valuations and M&A mandates. Mr. Barber was a co-founder and CFO of Hiku Brands until the company's sale to Canopy Growth in 2018. Prior to that Mr. Barber was a managing partner of a boutique energy focused M&A advisory firm in Calgary. Prior thereto, Mr. Barber spent many years covering the energy sector on investment banking and research teams at Canaccord and Raymond James. Mr. Barber began his career as an economist with Deloitte LLP. Jeff Barber has served on the board of Standard Lithium since 2017 and recently joined the board of Helium Evolution. Mr. Barber is a CFA charterholder and holds a master's degree in finance and Economics from the University of Alberta.

Doug Engdahl Managing Director

Mr. Engdahl has over 20 years of experience managing various companies with over 15 years of geological experience in both junior and major exploration and mining sectors across North America and in Africa. His extensive mineral exploration experience has been focused on data compilation and interpretation, drill target generation and drill program management, as well as resource and mine modeling with focus on structural geology and resource calculations. Mr. Engdahl has extensive Athabasca Basin resource experience having previously spent over eight years working as a Senior Mine Geologist on Cameco Corporation's McArthur River Mine, the largest high-grade uranium mine in the world.²

Blake Steele Director

Mr. Steele is an experienced metals and mining industry executive and director with extensive knowledge across public companies and capital markets. Mr. Steele was most recently director of Azarga Uranium Corp., a TSX-listed uranium development and exploration company, which was grown into an advanced stage multi-asset company through M&A and organic growth. Azarga Uranium Corp. was ultimately acquired by enCore Energy Corp for C\$200 million. Mr. Steele is a Chartered Professional Accountant and Chartered Business Valuator in Canada. Mr. Steele received a Bachelor of Commerce (Hons) degree from the UBC Sauder School of Business.

Sean Kallir Director

Mr. Kallir has over 11 years of Investment and Capital Markets Experience. In 2013, Mr. Kallir co-founded HGC Investment Management Inc, a leading Toronto based Hedge Fund with assets under management in excess of CAD\$950MM. As CEO and CIO of HGC Investment Management, Mr. Kallir has achieved leading performance amongst peers, and has been involved in hundreds of M&A transactions. Mr. Kallir holds an Honors BA in Economics from the University of Western Ontario.

Technical Team



Doug Adams

VP, Exploration

Mr. Adams has over 17 years of geoscience experience working in the mining industry with a specific focus in uranium. Mr. Adams spent over 10 years as a geologist with Cameco where he managed multiple projects and was responsible for drill targets, downhole data interpretation, and supervision of junior geologists. Beyond Cameco, Mr. Adams also brings uranium experience from his time working with Denison Mines, 92 Energy and Okapi Resources and has been part of significant uranium discoveries and advancement of known deposits throughout the Athabasca region. Mr. Adams has been a key contributor in discoveries at Eagle Point, McArthur River & West McArthur River, Crowe Butte, Brown Ranch, and most recently the GMZ zone on 92 Energy's Gemini project. He has extensive experience with unconformity, roll-front and tabular deposits in the US and Canada.

Rob Friesen, M.Sc.

Environmental Specialist

Mr. Friesen has over 15 years of experience in environment, regulatory frameworks, building relationships, and communications for various resource sectors with a primary focus in mining. Mr. Friesen has managed and implemented environmental management systems and programs conforming to regulatory and ISO 14001 standards for uranium and gold mining operations within Saskatchewan, including Cameco Corporation's McArthur River Mine, the largest high-grade uranium mine in the world. Along with his technical expertise, Mr. Friesen has extensive experience as a subject matter expert for industry and community in a variety of engagement and educational opportunities and is well-versed in building regulatory, community and business relationships associated with the mining industry in Saskatchewan.

Chris Brown, P.Geo

Geophysical Specialist

Mr. Brown has 17 years of experience in applying borehole, ground, and airborne geophysical methods to enhance mineral exploration projects in a wide range of environments globally. Mr. Brown has also been extensively involved in geophysical project management from business development, client retention and budgeting, as well as survey planning, data acquisition, processing, modelling, and interpretation. He has interpreted datasets for myriad mineral deposit types including uranium.

ATHA is leveraging the **extensive technical expertise and Athabasca Basin experience of its technical team** to define and develop prospective properties within its 3.4 million acres land package.

Melissa Engdahl, MBA

Engagements and Consultations Specialist

Ms. Engdahl has over 25 years of experience working with individuals, community, public sectors, non-profits, and private enterprise facilitating groups, leading community development initiatives, implementing organizational strategies and building shared value principles, and social awareness into core business models, operations, and service/supply chains. Ms. Engdahl's experience working with Indigenous communities over the last decade underscores the importance of reciprocity, trust, transparency and authentic relationship building in her practice. Her unique experience and diverse education align to support and innovate corporate strategies for corporate social responsibility and environmental, social and governance activities for the organizations she serves.

Ty Magee, P.Geo Geotechnical Provider and Specialist

Mr. Magee has over 8 years of academic and professional exploration experience and has worked with in North America and internationally on multiple projects from grassroots to brownfield exploration on various types of commodities in several roles, including as a Contract Geologist for Denison Mines. Mr. Magee brings exploration experience with focus on data compilation, QA/QC and sampling methods, geological mapping and prospecting, geochemical data interpretations/modeling, project planning and technical writing.