



**ASX: BSN**



# **Investor Presentation August 2025**

**Targeting uranium and rare earth metals in Tier-1 jurisdictions to drive the clean energy transition.**



# Disclaimer & Competent Persons Statement

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## Disclaimer

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All figures in Australian Dollars unless stated otherwise.

## Competent Persons Statement & Resource Figure Notes

The information in this announcement that relates to exploration results was first reported by the company in accordance with ASX listing rule 5.7 in the Company's prospectus dated 22nd August 2022 and announced on the ASX market platform on 30th September 2022, and in subsequent market updates. The Company confirms that it is not aware of any new information or data that materially affects the information included in the prospectus and subsequent ASX releases.

All resource figures shown within this document of deposits within the Athabasca, unless stated are quoted from the International Atomic Energy Agency (IAEA) Tecdoc 1857. Resources are global and include mined resource and all classification of remaining resource. Resource Size (U3O8) is the amount of contained uranium (in Mlbs U3O8) and average grade (in % U3O8) of the deposit/system. This number is presented without a specific cut-off grade, as the cut-off value differs from deposit to deposit and is dependent on resource calculation specifications. Discrepancies between values in this field and other values in the public domain may be due to separate cut-off values used, or updated values since the writing of this document. For system entries, the values for the size were obtained by adding the individual deposits values whereas average grade values were derived using a weighted average of the individual deposits.





“ Over the next 6 months, Basin Energy will be drilling the first holes on three district scale opportunities for uranium and rare earth deposits in Northwest Queensland. Concurrent to this, we are anticipating a political shift in Sweden permitting uranium mining.

The Company is strategically positioned to capitalize on the growing global demand for uranium and rare earth elements within tier-1 jurisdictions. ”

— Pete Moorhouse, Managing Director







## Strategy

Basin is focused on discovering and advancing uranium, rare earth and green energy metal projects aligned to long-term structural demand and global decarbonisation.



## Strategic Landholding Across Tier-1 Districts

100% Ownership of uranium and rare earths portfolio in Queensland, near Paladin's 148.4 Mlb Mount Isa deposit <sup>[1]</sup> and Red Metal's REO discovery, backed by advanced uranium targets in Canada's high-grade Athabasca Basin and multi-metal opportunities in the underexplored Nordic region.



## Systematic Exploration Approach

Clear exploration strategy targeting shallow mineralisation with drill ready targets



## Jurisdictions

Projects across Canada (Saskatchewan), Nordic region (Sweden & Finland) and Queensland, Australia, all globally respected mining jurisdictions with strong infrastructure and consistently high rankings in mining investment attractiveness.



## Focused Team

Utilizing experience and knowledge of a highly experienced board and management team to identify geologically prospective, readily explorable opportunities.

## Capital Structure (pre deal)

Share Price <sup>4</sup>	\$/share	0.025
Total Shares on Issue	m	122.8
Market Capitalisation	\$m	3.1
Cash <sup>1</sup>	\$m	1.0
Debt	\$m	-
Enterprise Value	\$m	2.1
Unlisted Options and performance rights <sup>2</sup>	m	21.9

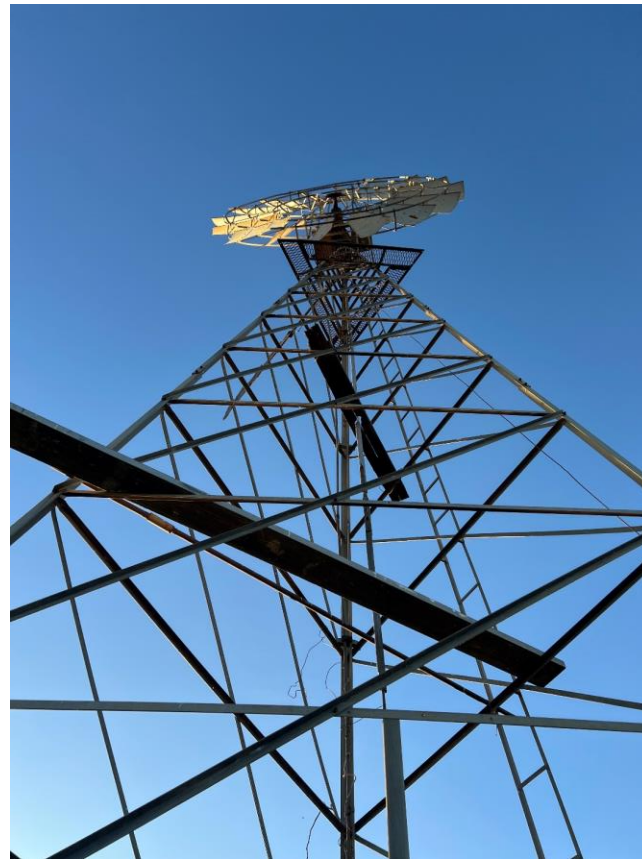
1. Cash at June Quarterly
2. 5.0m options exercisable at \$0.25 to Board & Management expiring 30/09/2025.  
5.3m options exercisable at \$0.25 to advisors expiring 30/09/2025.  
3.0m options exercisable at \$0.25 to Founders expiring 30/09/2025.  
4.0m performance rights issued to Board & Management.  
9.2m options at \$0.10 expiring 15/01/2028 subject to escrow until 15/01/2027
3. 8.5m shares subject to escrow until January 2027
4. As at 22/08/2025





## Successful placement completed to commence maiden RC and aircore drilling <sup>[1]</sup>

- The Company received firm commitments from institutional and sophisticated investors to raise \$1.25 million by placing 50,000,000 shares at \$0.025 per share, representing a 9% premium to 20-day VWAP
- The offer was significantly oversubscribed, with proceeds to be allocated as follows:
  - Air-core drilling on the district scale Barkly Tablelands uranium and REE targets
  - RC drilling at the district scale Newmans Bore granite-hosted REE target
  - Mapping and sampling of the West Valhalla Radiometric targets
  - General working capital
- The Placement was completed over 2 tranches, with tranche 2 subject to shareholder approval provisionally to be sought in early October 2025
- The Placement was managed internally by Basin



<sup>[1]</sup> Capital raise details : Refer ASX:BSN Basin Energy to acquire extensive Queensland Uranium and Rare Earth portfolio 27/08/2025



# Tier-1 Jurisdictions Backed by Fraser Institute Rankings

## QUEENSLAND (39\*)

District scale exploration opportunity for **uranium and REE**

## SWEDEN (6\*)

## FINLAND (1\*)

### Green Energy Metals

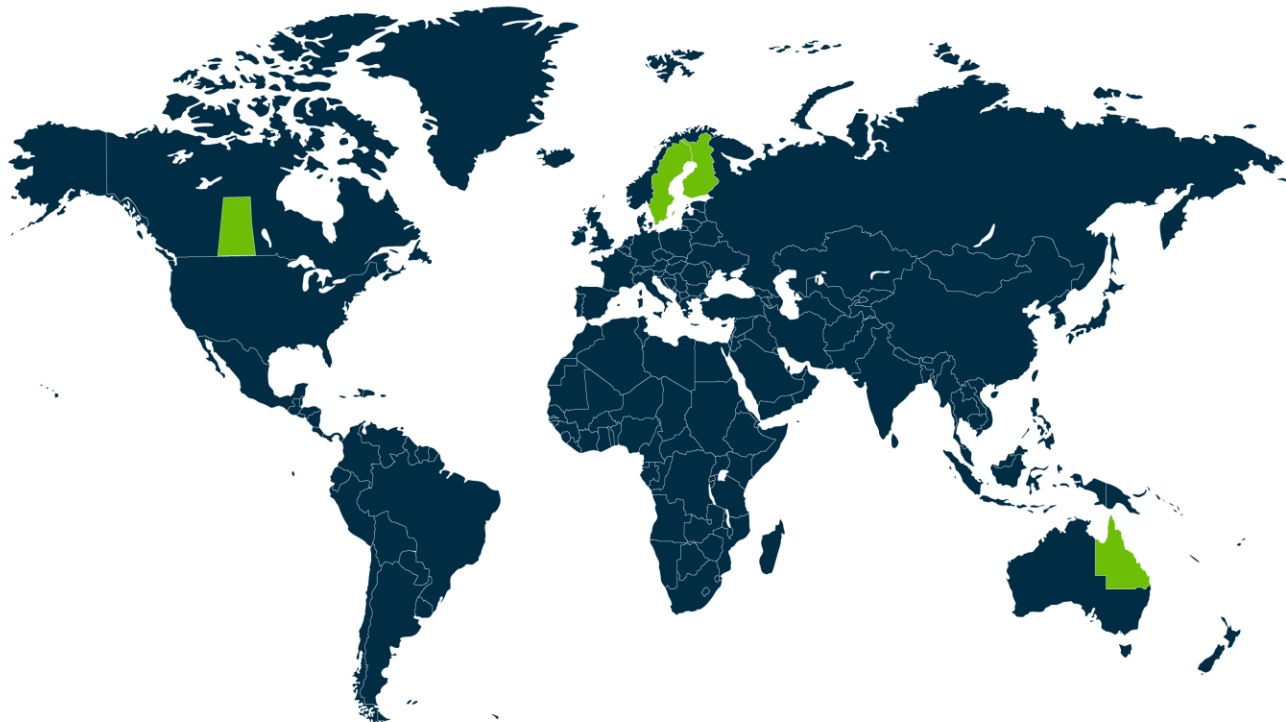
Located within historical uranium & base metal districts

## CANADA (7\*)

## ATHABASCA BASIN

### 3 Uranium Projects

Located in the heart of the worlds premier uranium district



\*2024 Fraser Institute Investment Attractiveness Index ranking



# Proven Board and Management

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**Blake Steele**  
Non-Executive Chairman

Blake Steele is an experienced metals and mining industry executive and director with extensive knowledge across public companies and capital markets. He was formerly President and Chief Executive Officer of Azarga Uranium Corp (Azarga), a US-focused integrated uranium exploration and development company and led Azarga into an advanced stage multi-asset business acquired by encore Energy for C\$200M in Feb 2022.



**Pete Moorhouse**  
Managing Director

Pete Moorhouse has 19 years of mining and exploration geology experience with extensive experience in the junior uranium sector. This includes over 10 years with ASX-listed uranium explorer and developer Alligator Energy (ASX:AGE). He holds significant competencies in the evaluation, exploration, resource drilling and feasibility studies across many global uranium and resource projects.



**Odile Maufrais**  
Exploration Manager

Odile Maufrais has over 15 years experience in the uranium exploration and mining industry in France, Niger, Canada, and Australia. She spent 10 years exploring in the eastern and western Athabasca Basin on over 15 greenfield and brownfield uranium exploration projects with ORANO, one of the largest global uranium producers. Her most recent activities comprise working as a Senior Geological Consultant for ASX and TSX.V listed uranium and lithium junior explorers.



**Cory Belyk**  
Non-Executive Director  
Geologist / CanAlaska Rep

Cory holds 30 years' experience in exploration and mining with extensive global uranium experience most recently employed by Cameco in the Athabasca Basin.



**Matt O'Kane**  
Non-Executive Director

Matt is an experienced finance executive and company director with over 25 years' experience in the mining and mineral exploration, commodities, and automotive sectors. His roles included directorship of Azarga Uranium Corp.



**Ben Donovan**  
Company Secretary  
Corporate / Legal

Ben has over 21 years of experience in the provision of corporate advisory and company secretary services.





# Queensland Uranium and Rare Earths



# Queensland: Tier-1 REE + Uranium Opportunity

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## Proven Geological Concepts

Located adjacent and within the same granite complex as Red Metal's (ASX:RDM) giant Sybella discovery, and just 6.5 km from Paladin's 148.4 Mlb Valhalla uranium deposit <sup>[1]</sup>



## Dominant Landholding

100% interest in 5,958km<sup>2</sup> rent-abated strategic uranium and rare earth element tenement package allowing low cost holdings and district scale opportunity



## Systematic Exploration Approach

Shallow, high conviction drilling allow cost effective exploration. Queensland Government funding in place to allow drilling to commence in 2025



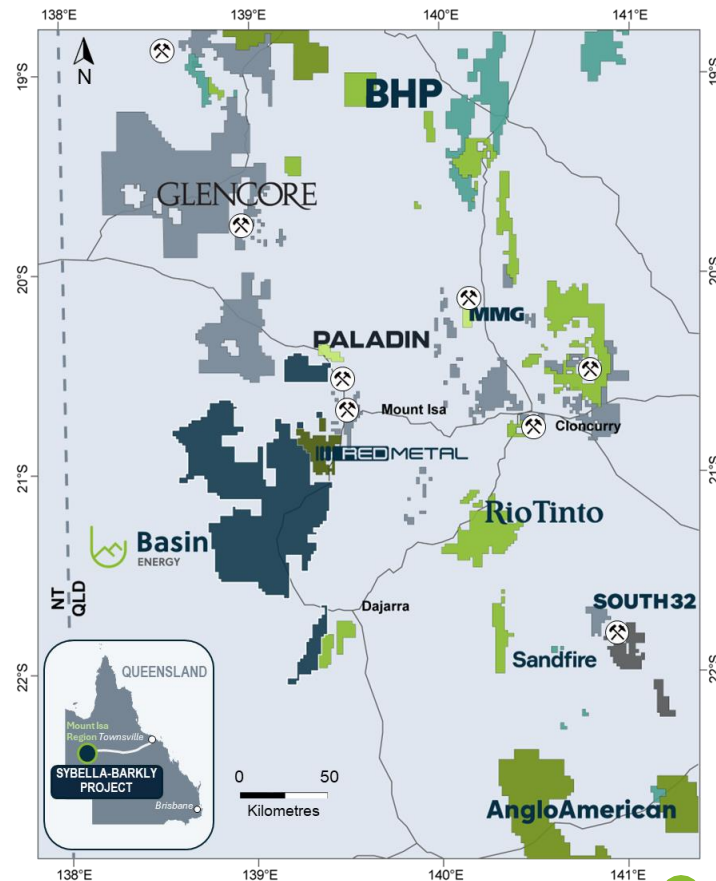
## Multiple Advanced Mineralisation Target Models

Paleochannel and shear hosted uranium targets, as well as sediment hosted and hard rock rare earth element targets



## Jurisdictional Advantage

Rapidly emerging rare earth and critical minerals district. Located close to Mount Isa with exceptional regional mining and transport infrastructure



[1] Aggregate of measured, indicated and inferred resources p31 Paladin 2024 annual report [https://www.paladinenergy.com.au/wp-content/uploads/2024/09/Paladin\\_2024AnnualReport\\_Web\\_SinglePage\\_Interactive74.pdf](https://www.paladinenergy.com.au/wp-content/uploads/2024/09/Paladin_2024AnnualReport_Web_SinglePage_Interactive74.pdf)



# Exploration Models – Sediment Hosted

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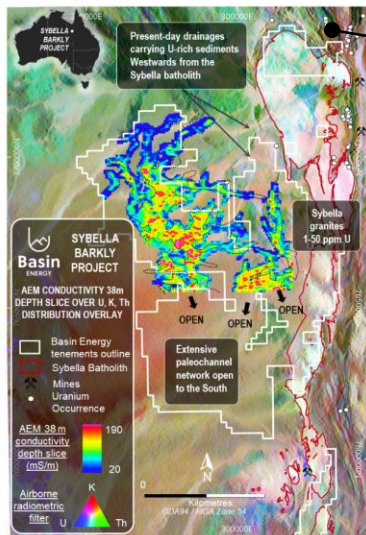


## Model

### Uranium

Paleochannel rollfront

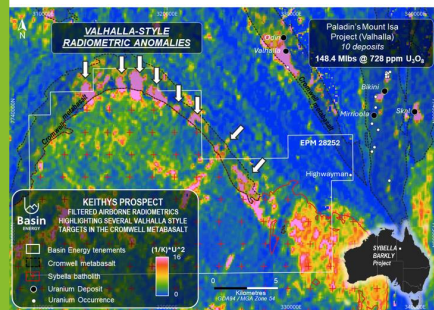
2025 Air-core Program



Shear Hosted

2025 Rock Chip Sampling

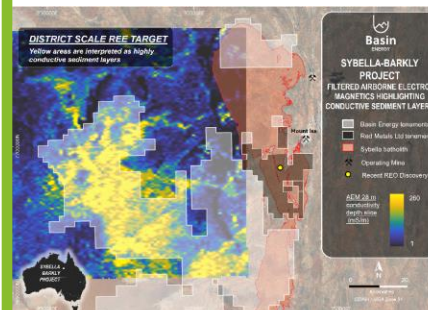
Valhalla project  
148.4 Mlbs @ 728 ppm <sup>[1]</sup>  
U<sub>3</sub>O<sub>8</sub>



### Rare Earths

Sediment Hosted

2025 Air-core Program

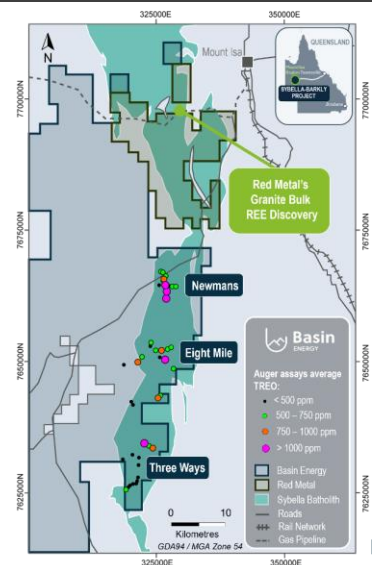


## Advanced

### Rare Earths

Granite Hosted REEs

2025 RC Drilling



Sediment hosted 1

Hard rock hosted 1

Sediment hosted 2

Hard rock hosted 2

[2] Historic Sampling results: Refer ASX:BSN Basin Energy to acquire extensive Queensland Uranium and Rare Earth portfolio 27/08/2025



# Prospective Shallow Sediments

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## Two Unique Deposit Styles within the Same Sedimentary Package

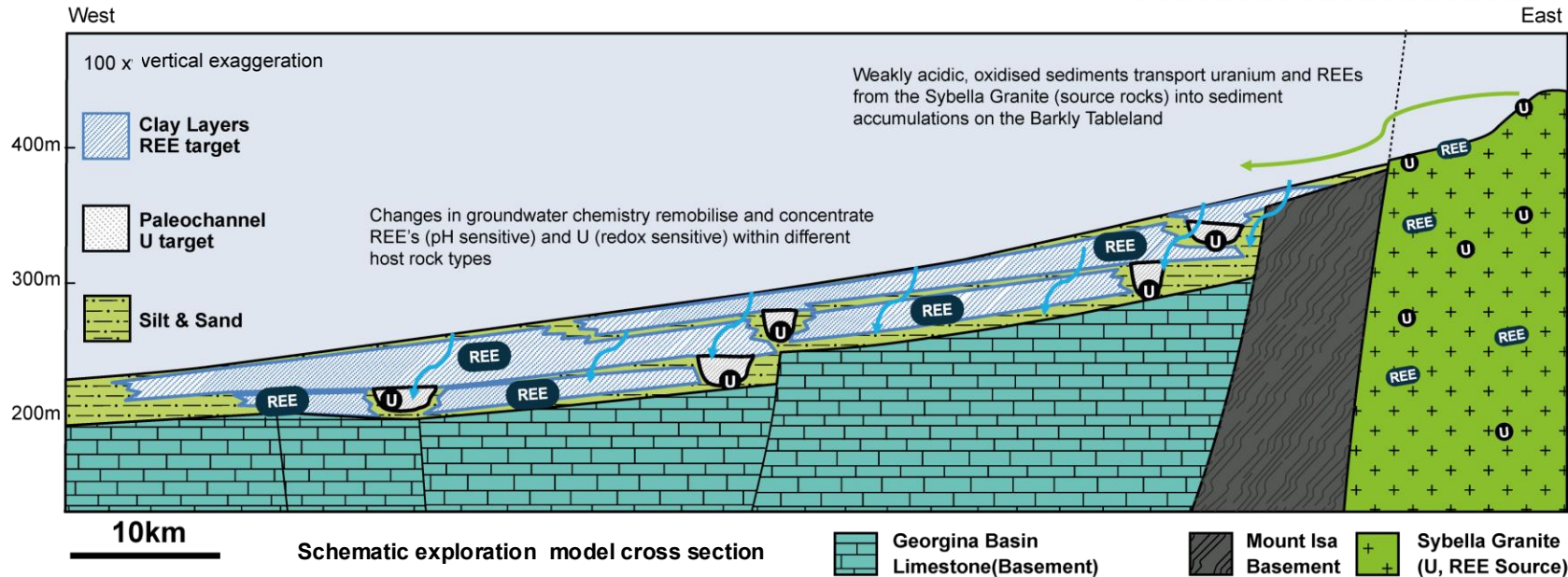
1

Large, bulk tonnage  
REE targets in  
near-surface sediments

2

'Roll-front' U targets in  
paleochannel sandstones

Sybella Granite (source rocks)  
host to Red Metal's Sybella  
Deposit and potentially source  
rock for Paladin's Valhalla [3]



[3] McGloin, M. V., Tomkins, A. G., Webb, G. P., Spiers, K., MacRae, C. M., Paterson, D., & Ryan, C. G. (2016). Release of uranium from highly radiogenic zircon through metamitization: The source of orogenic uranium ores. *Geology*, 44(1), 15-18.



# District Scale Paleochannel Rollfront Uranium Opportunity

1

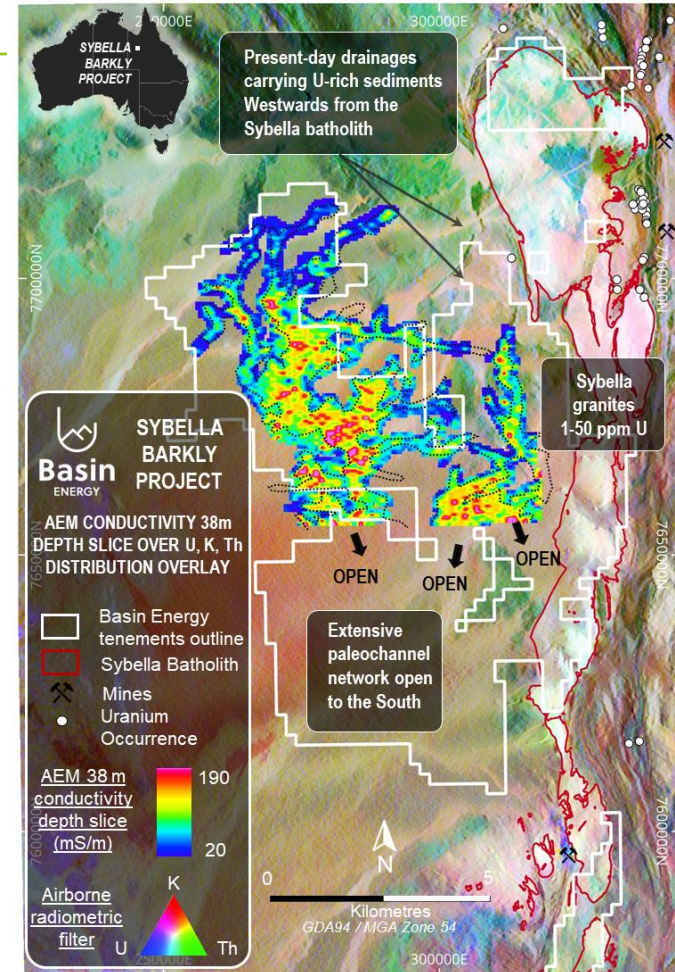
## Sandstone-Hosted Uranium

- Extensive paleochannel networks are defined by high-spatial resolution airborne EM survey from Summit Resources [4]
- Present-day seasonal creeks and paleodrainage patterns suggest that the uranium-rich Sybella Batholith is the dominant sediment source [4]
- Exploration model targeting analogies to Beverley/Honeymoon system
- Historical drilling (exploring for base metals and phosphate) has identified first-order uranium targeting indicators including: redox fronts, impermeable caprocks, and sandstone channels (none of which were assayed for uranium...) [5],[6]

[4] Davey, R. 2007 Fugro Airborne Surveys Pty Ltd - Target generation for uranium from an interpretation of Tempest airborne electromagnetic data, Mt Isa, Queensland. Prepared for Summit Resources Ltd - FAS Job Number 1941.

[5] CR23537 - EPM 7861, Oban, Yaringa project, Annual report for period ending 21/5/1992, BHP Minerals Limited

[6] CR5593 - EPM 903, 969-972, Combined final report (903)(2) (portion relinquished), (portion relinquished) (969-972), Qld Phosphate Ltd





# District Scale Sediment and Ionic Clay Hosted REE Opportunity



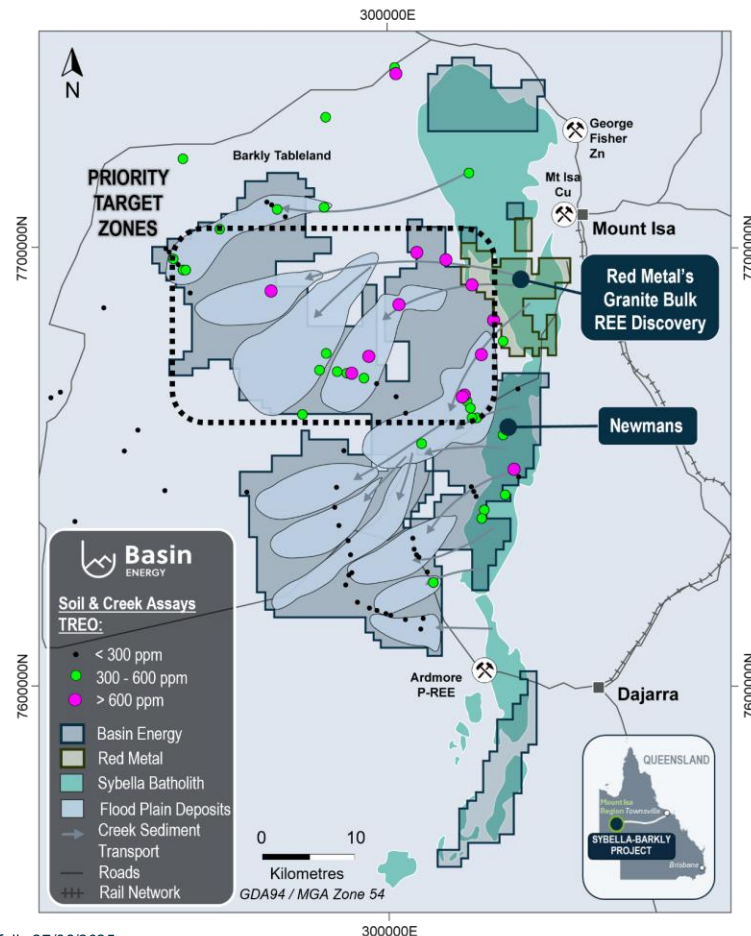
2

## Clay/Sediment-Hosted REEs

- Soil and stream sediment REE-anomalies [2] demonstrate that REE-laden sediment has been transported (by modern and ancient rivers) westwards onto the floodplains of the Barkly Tableland, with multiple surface sediment samples returning over 600ppm TREO
- Basin's tenements are deemed highly prospective for clay-hosted and sediment hosted REE deposits within vast alluvial depocenters
- Significant REE accumulations may occur in paleochannels and buried alluvial fans under shallow cover
- Minimal historical drilling (none targeting REEs)



BARKLY TABLELAND



[2] Historic Sampling results: Refer ASX:BSN Basin Energy to acquire extensive Queensland Uranium and Rare Earth portfolio 27/08/2025



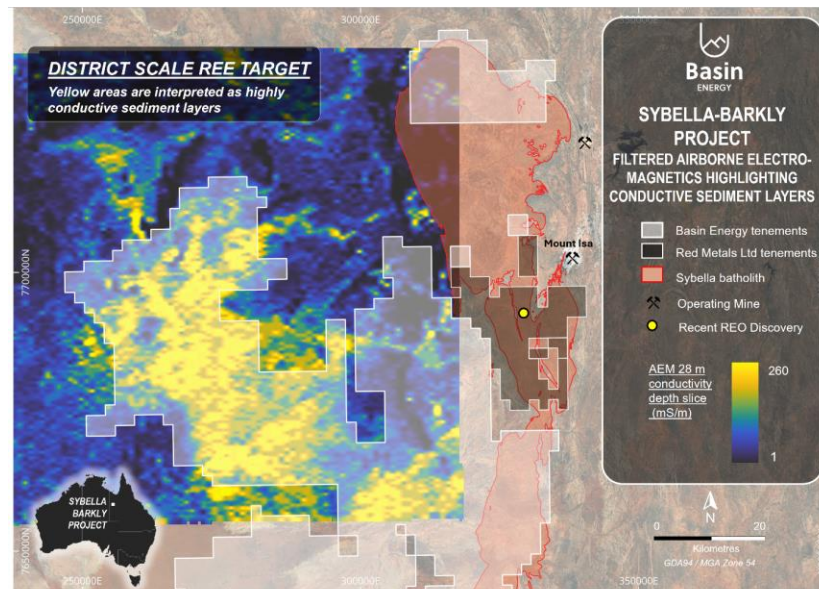
# District Scale Sediment and Ionic Clay Hosted REE Opportunity



2

## Clay/Sediment-Hosted REEs

- Shallow electromagnetic (EM) anomalies are interpreted to represent shallow conductive clay accumulations<sup>[7]</sup>
- Conductive layers average 12 m thickness at 20-32 m depth with a footprint of more than 1000 km<sup>2</sup>
- Priority target zones represent paleo-drainages sourced from the REE-enriched Sybella granites
- **Defines an array of large-scale, shallow, laterally continuous clay-hosted REE targets**

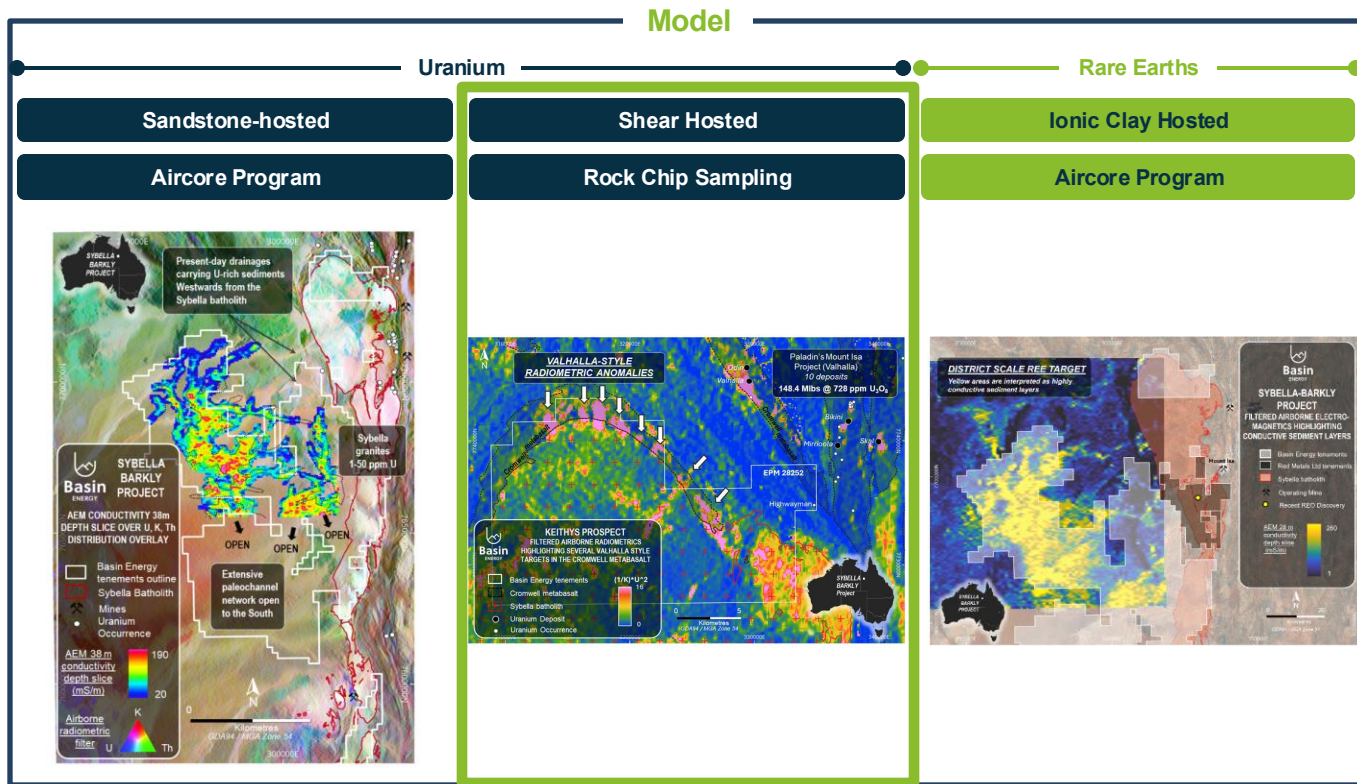


[7] Fugro Airborne (2007) - Target generation for uranium from an interpretation of Tempest airborne electromagnetic Data – for Summit Resources Ltd



# Exploration Models – Hard Rock

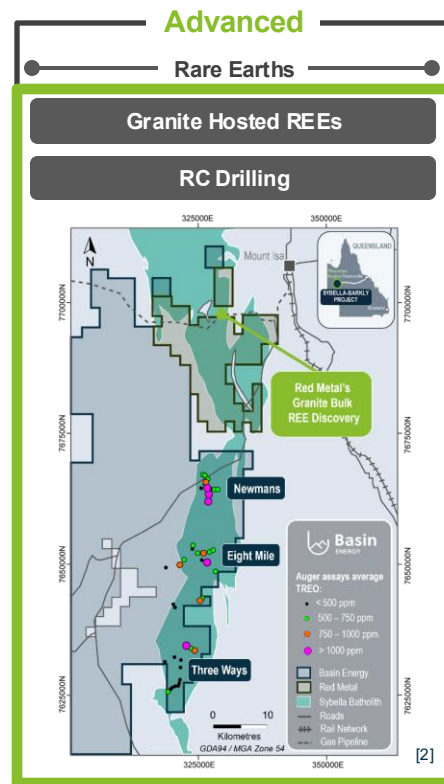
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Sediment hosted 1

Hard rock hosted 1

Sediment hosted 1



Hard rock hosted 2



# District Scale Granite Hosted REE Opportunity

## The Next Sybella Discovery?



1

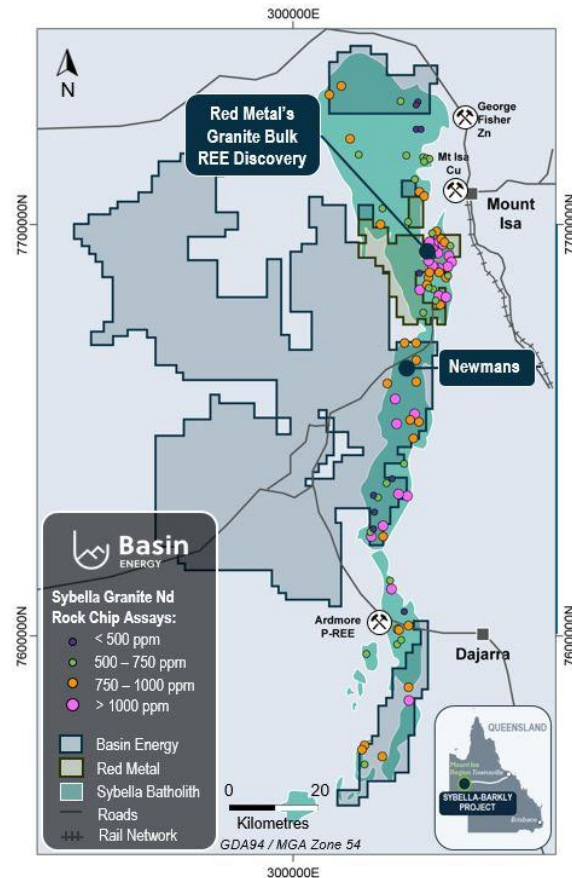
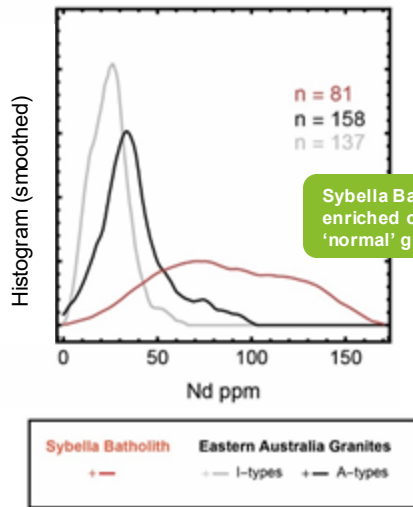
- Massive granite body (180 km x 15km)



- Exceptional, widespread REE enrichment

- Highly prospective for bulk LREE deposits (low-grade, giant tonnage)

- REEs are hosted in weak acid-soluble REE-fluoro-carbonate minerals



[8] Refer to Serra Verde presentation: <https://www.cetem.gov.br/antigo/images/palestras/2015/iiisbtr05-denilson-fonseca.pdf>

[9] Webb, G. P. (2019). Origin(s) and evolution of granitic melts: Theoretical considerations and field examples from Mount Isa, Australia. PhD thesis, University of Melbourne.

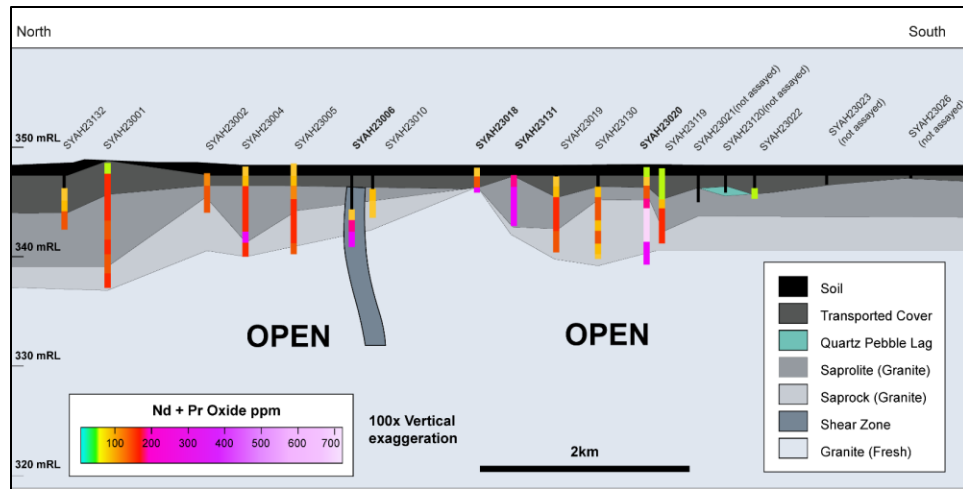


# District Scale Granite Hosted REE Opportunity

## Proof of Concept

Geochemical and geological profile analogous to Red Metal's bulk REE discovery

- Shallow proof-of-concept auger program completed in August 2023 <sup>[2]</sup>
- Demonstrated the presence of REE within the near surface regolith of the Sybella Granite
- Three anomalous granite targets areas have been identified
- Geologically and metallurgically appear very similar to Red Metal's bulk REE discovery



Note Vertical Exaggeration – These are very shallow holes

### SYAH23-006

2.5m @ 1,343 ppm  
TREO with 248 ppm  
Nd+Pr Ox from 5m to  
EOH

### SYAH23-018

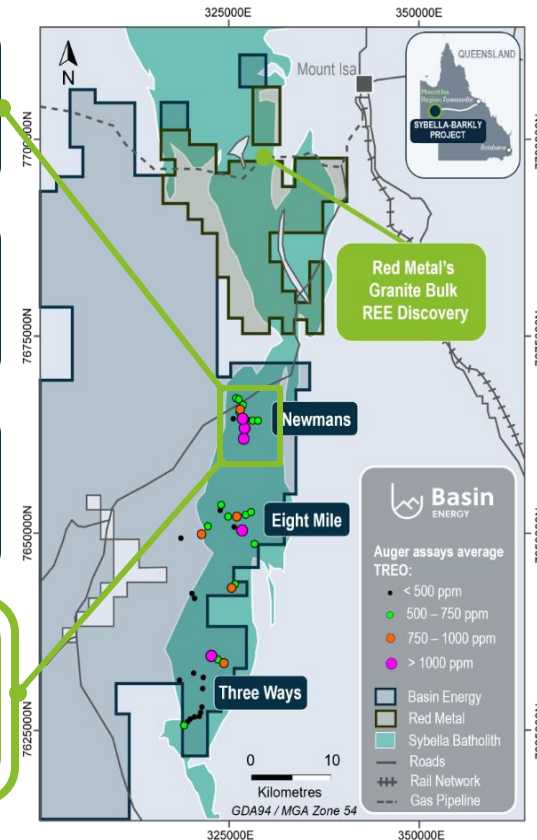
0.5m @ 1,996 ppm  
TREO with 465 ppm  
Nd+Pr Ox from 2m to  
EOH

### SYAH23-131

2.6m @ 1,535 PPM  
TREO with 329 ppm  
Nd+Pr Ox from 3m to  
EOH

### SYAH23-020

5m @ 1,951 ppm  
TREO with 578 ppm  
Nd+Pr Ox (incl 3m @  
705 ppm Nd+Pr Ox) 4m  
to EOH



[2] Historic Sampling results: Refer ASX:BSN Basin Energy to acquire extensive Queensland Uranium and Rare Earth portfolio 27/08/2025



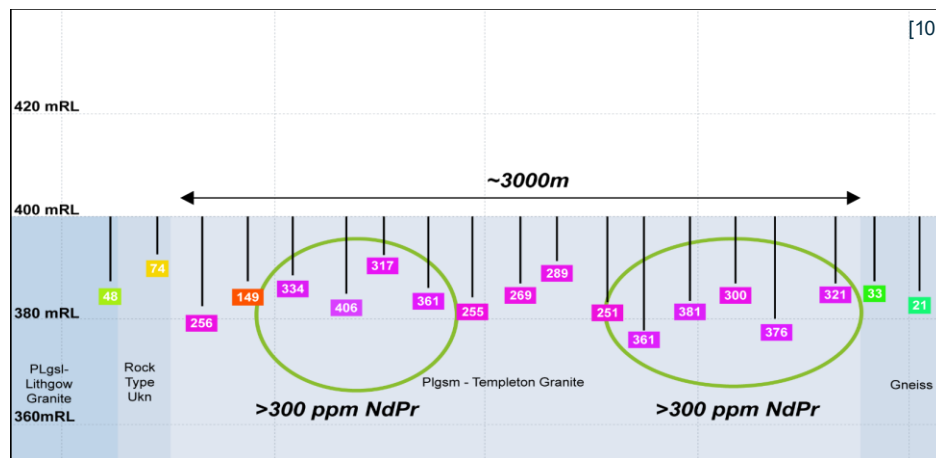
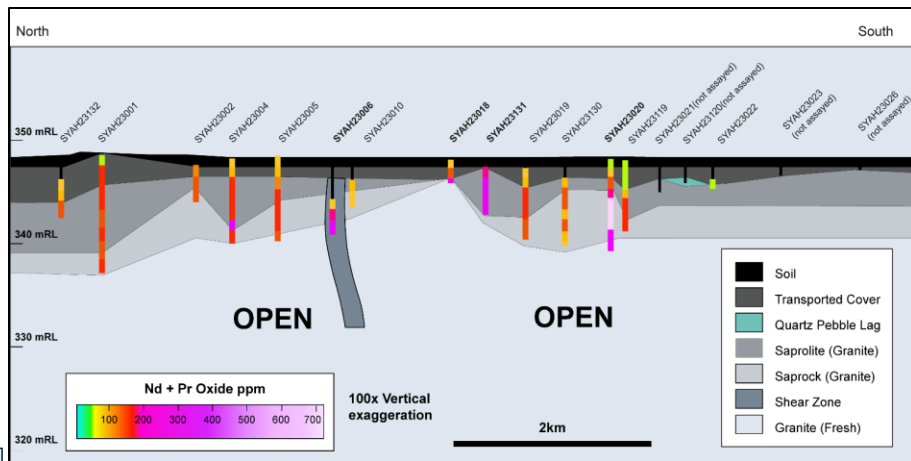
# District Scale Granite Hosted REE Opportunity

## Proof of Concept

Geochemical and geological profile analogous to Red Metal's bulk REE discovery

- **Proof-of-Concept Auger Program**  
Shallow, sub-10 metre program completed in August 2023
- **REE Presence Confirmed**  
Identified rare earth elements within near-surface Sybella Granite regolith across a significant area

- **Proven Discovery Blueprint**  
Red Metals initial geochemical anomaly showed very similar tenor of anomalism, in end of hole samples from up to 29 metres deep
- **Low-Cost Path to High-Grade Discovery**  
Near-surface depletion suggests stronger grades at depth, creating low-cost, high-upside target



BSN's auger anomaly

RDM's discovery anomaly



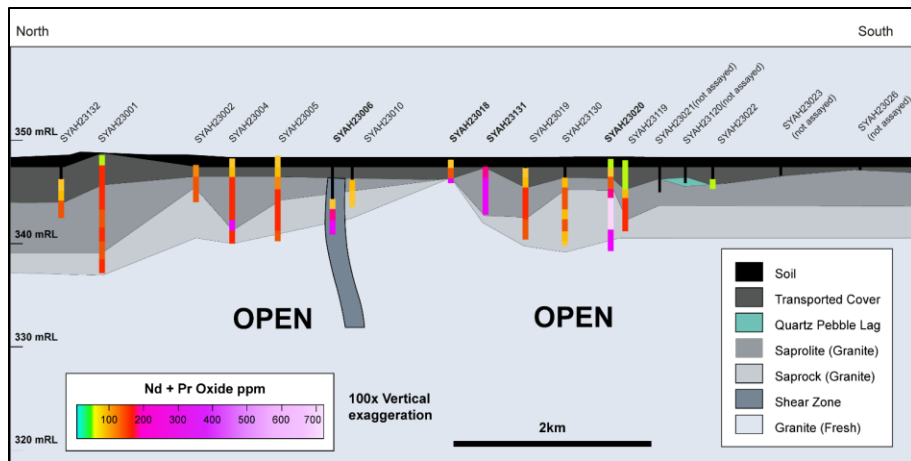
# District Scale Granite Hosted REE Opportunity

## Proof of Concept

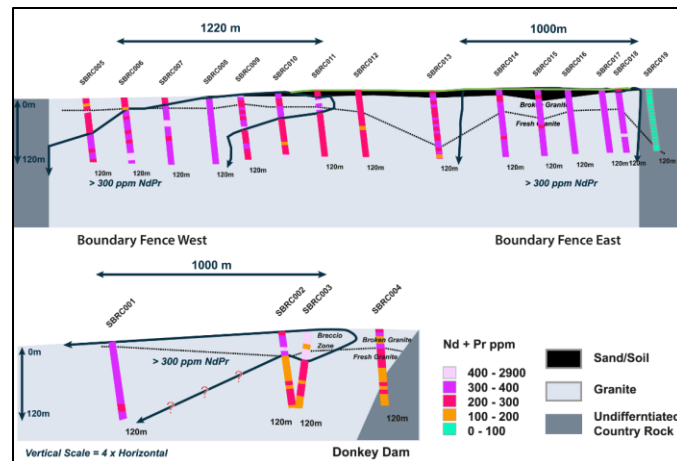
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[2]



[11]

BSN's auger anomaly

RDM's discovery after initial drilling



# District Scale Granite Hosted REE Opportunity

## Proof of Concept

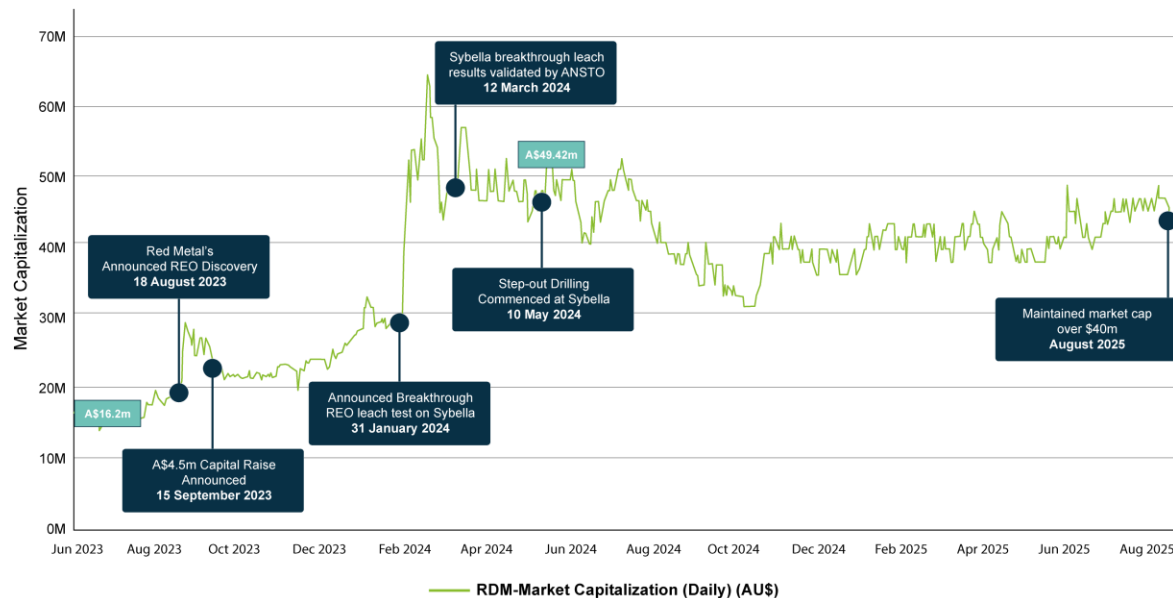
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Outstanding leach test results from granite-hosted REE mineralisation within the Sybella by Red Metal have demonstrated the potential for heap leach operations utilising this model

- **pH range:**  
pH 2.0–2.5, using relatively *weak*, low-cost acid
- **Recovery rates at pH 2.0:**
  - **Nd & Pr:** 76–81 % each
  - **Tb:** 43–60 %
  - **Dy:** 38–55 %
- **Acid consumption:**  
**17–22 kg H<sub>2</sub>SO<sub>4</sub>/t Impurities:** Low extractions of Al (3–6%) and Fe (1–2%)

- **Key takeaway:**  
The Red Metals tests validate the potential for efficient processing of granite hosted rare earths hosted in the Sybella Batholith



Red Metal (ASX:RDM) market cap shown to demonstrate the progress and advancement of exploration and derisking of a project with similar geological target within the district

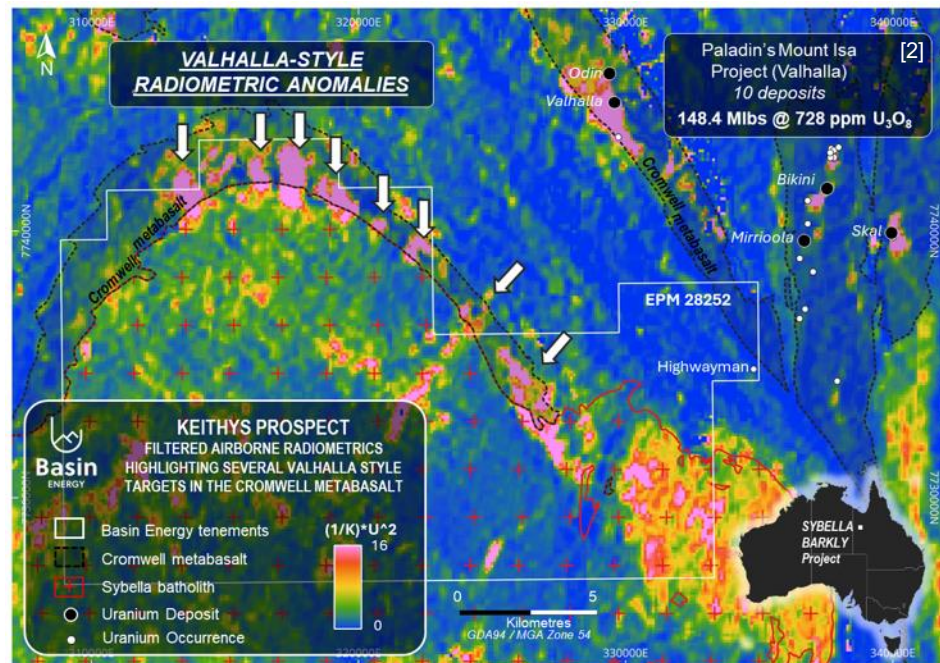




## 2

### Valhalla-Style Shear-hosted Uranium

- Significant potential for **Valhalla-style shearzone-hosted** targets.
- Located under 7 kilometres from known uranium resources including Valhalla
- Radiometric anomalies located transecting the geological contact between the Sybella granite and the Cromwell Metabasalt – This is the host rock to Valhalla deposits
- Evidence for the Sybella granite being source Valhalla Project of uranium deposits<sup>[9]</sup>
- Radiometric filtering designed to highlight alteration sequence of Valhalla produces clear structurally controlled features



Filtered airborne radiometric data (isolating high-U, low-K rocks) highlighting several potential Valhalla-style shearzone targets in the Cromwell Metabasalt and the adjacent Sybella Batholith

[2] Sampling results and geophysical results: Refer ASX:BSN Basin Energy to acquire extensive Queensland Uranium and Rare Earth portfolio 27/08/2025

[9] Webb, G. P. (2019). Origin(s) and evolution of granitic melts: Theoretical considerations and field examples from Mount Isa, Australia. PhD thesis, University of Melbourne



# Acquisition Consideration Overview



Subject to shareholder approval

- (a) Shares: The issue of 18,479,694 fully paid shares in the capital of Basin to the Sellers in proportion to their respective holdings in NeoDys (23 holders).
- (b) Options: The issue of 15,000,000 options to acquire shares in Basin as follows: (i) 7,500,000 options exercisable at 5c; and (ii) 7,500,000 options exercisable at 10c. The determination as to the number of options to be issued to each Seller remains to be confirmed.
- (c) Performance Rights: The issue of 45,000,000 performance rights in three tranches, which will vest and become convertible into Basin shares upon the satisfaction of the following performance hurdles:
  - (i) Tranche 1: Basin announcing a drill intersection within the Project on alluvial plains of either: (i) >15m at 1700ppm TREO; or (ii) >10m at 1000ppm  $U_3O_8$ , in each case within 12 months of completion of the Acquisition (or GT equivalent).
  - (ii) Tranche 2: Basin announcing delineation of either: (i) JORC compliant 500Mt REE resource at  $\geq 1,700$ ppm TREO (or tonnage / REE basket with equivalent MRE value) at 200ppm NdPr cut-off grade within the Project; or (ii) delineation of JORC compliant 30Mlb  $U_3O_8$  resource at 200ppm  $U_3O_8$  cut-off grade within the Project, in each case within 36 months of completion of the Acquisition.
  - (iii) Tranche 3: Basin achieving a market capitalisation of >A\$30m as at the close of trading over a consecutive 20 trading day period within 36 months of completion of the Acquisition.
- (d) Royalty: A 1.25% net smelter returns royalty. The determination as to the split of the royalty between the Sellers remains to be confirmed.





# Basin Energy Athabasca Uranium



# Exploring for Athabasca Basin Uranium

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## Exploring for Athabasca Uranium Style

**Mineralisation**, with basement hosted (Arrow style) and unconformity hosted (McArthur River style) targets



## Basin's Projects Display Strong Fundamentals;

- Proven geological settings (lithology, structure)
- Evidence of metals (uranium, pathfinders)
- Well-defined exploration potential (depth, targets)



## Strategically Located,

near world-class high-grade uranium discoveries, mining and processing operations (just 8 km from ACKIO discovery **31m @ 0.9% U<sub>3</sub>O<sub>8</sub>**)



## Experienced Team,

proven uranium exploration and development track record, strengthened by joint venture with CanAlaska, providing invaluable project-specific local knowledge



### Source Data:

IAEA Technical document 1857, Unconformity-related uranium deposits

World Nuclear Performance Report 2021, World Nuclear Association, September 2021; The Nuclear Fuel Report Global Scenarios for Demand and Supply Availability 2021-2040, World Nuclear Association April 2022

Baselode Energy TSX announcement, 20/09/2022, Baselode Intersects Best Drill Hole To Date With 0.90% U<sub>3</sub>O<sub>8</sub> Over 31.0 Metres Starting at 69.3 m True Vertical

CanAlaska TSX-V announcement, 22/10/2022, CanAlaska Confirms High-Grade Uranium Mineralization in New Uranium Zone at West McArthur





# Geikie, Marshall and North Millennium **Uranium Projects**

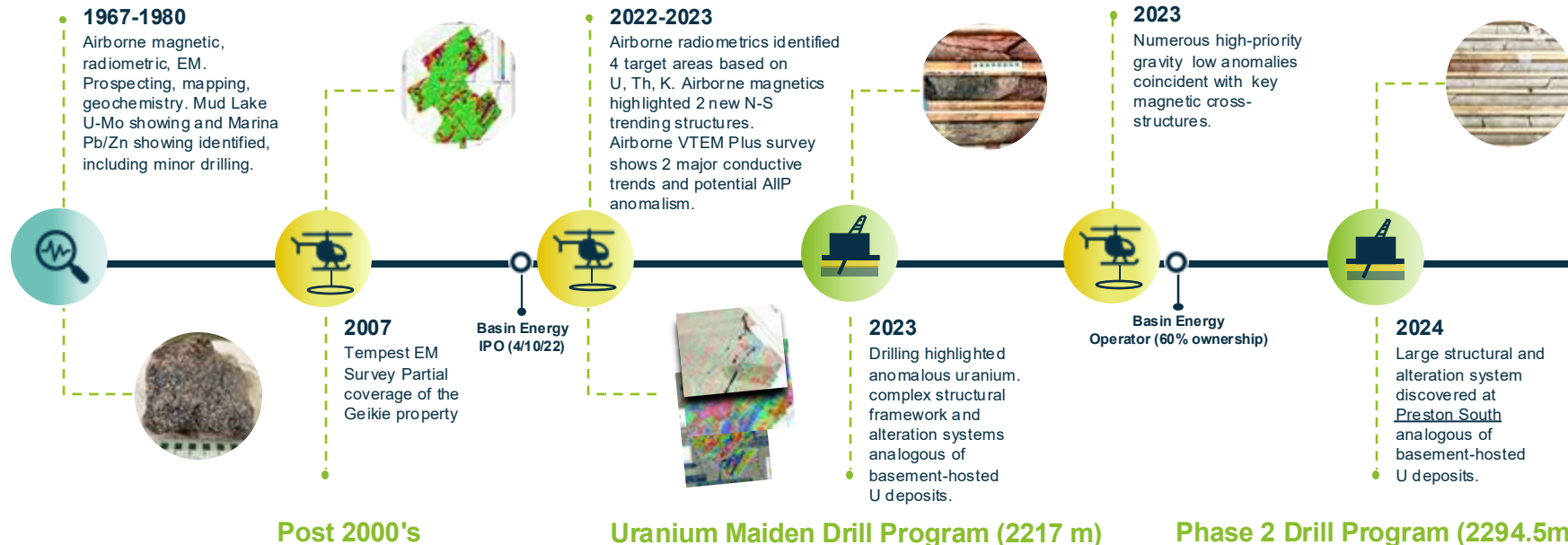




## Early Works

## High-Resolution Geophysics

## Derisking Drill Targeting with Gravity Gradiometry



### Source Data:

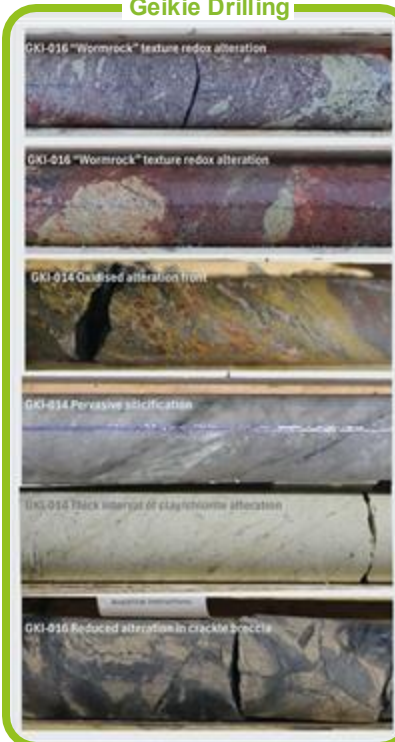
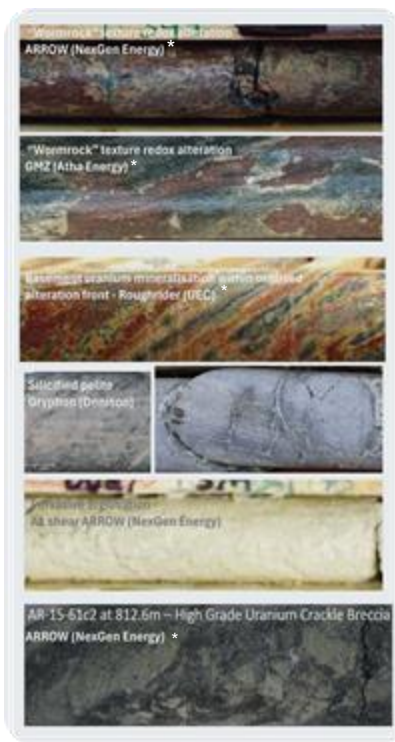
Refer ASX Announcement Basin Energy (ASX:BSN), 14/10/2022: Maiden Geophysical Survey Defines Multiple Targets at Geikie.  
 Refer ASX Announcement Basin Energy (ASX:BSN), 22/03/2023: Airborne Electromagnetic Survey Completed at Geikie.  
 Refer ASX Announcement Basin Energy (ASX:BSN), 10/08/2023: Elevated Radioactivity and Significant Hydrothermal Alteration Identified at Geikie.  
 Refer ASX Announcement Basin Energy (ASX:BSN), 22/08/2023: Airborne Gravity Survey Commences at Geikie Project.  
 Refer ASX Announcement Basin Energy (ASX:BSN), 29/08/2023: Basin Reaches 60% Ownership Milestone in Geikie Project.  
 Refer ASX Announcement Basin Energy (ASX:BSN), 20/09/2023: Basin intersects Uranium Mineralisation up to 0.27% in Maiden Drilling at Geikie.  
 Refer ASX Announcement Basin Energy (ASX:BSN), 15/11/2023: Gravity Survey Identifies Significant Anomalies at Geikie.  
 Refer ASX Announcement Basin Energy (ASX:BSN), 28/05/2024: Drilling at Geikie Identifies 1.5km Alteration Zone.  
 Refer ASX Announcement Basin Energy (ASX:BSN), 30/07/2024: Elevated Uranium Confirmed in Preston Creek Drilling.



# Geikie - Alteration Analogy with Basement Hosted Mineralisation



## Geikie Drilling



Geikie Drilling		
Geophysical Anomaly	Key Magnetic Structures	✓ NS, NNW
	Graphitic Conductor	✓ Weak-strong EM response ✓ Structural disruption: bends, splays in conductor trace
	Gravity Low Anomalies	✓ Several wide gravity low anomalies
Fluid Pathways	Host rock permeability	● Minimal original permeability ✓ Complex structural framework ✓ Several stages brittle reactivation overprinting early brittle-ductile structures
	Brittle Faulting	✓ Evidence of fluid circulation along metasediment/granite contact
Alteration Assemblages	Rheology Contrast	✓ Silica rich fluids (sil,Qtz vng/bx) ✓ Wide oxidized front (hem/py/mgt) ✓ Wide argillised zones
	Hydrothermal Alteration	✓ Graphite, Sulfides ✓ Biotite-rich gneiss
Geochemistry	Reducing Agents Uranium	✓ U-Th rich granites ● Up to 0.27% $U_3O_8$
	Anomaly Pathfinders	✓ Anomalous Pb isotopes ratios

## Source Data:

Refer Basin Energy ASX release dated 20/09/2023 "Basin Energy Intersects Uranium Mineralisation up to 0.27% in Maiden Drilling at Geikie"

Refer Basin Energy ASX release dated 30/07/2024: Elevated Uranium Confirmed in Preston Creek Drilling.

\* Visual estimates of mineral abundance should never be considered a proxy or substitute for laboratory analyses where concentrations or grades are the factor of principal economic interest. Visual estimates also potentially provide no information regarding impurities or deleterious physical properties relevant to valuations.



# Geikie – Summary Status



## Anomalous Uranium Was Intersected in 6 of the 16 Holes Drilled

- Highest grade was 0.27%  $U_3O_8$  over 0.5 metres at Aero Lake.
- 263 ppm over 9 metres at Preston Creek.

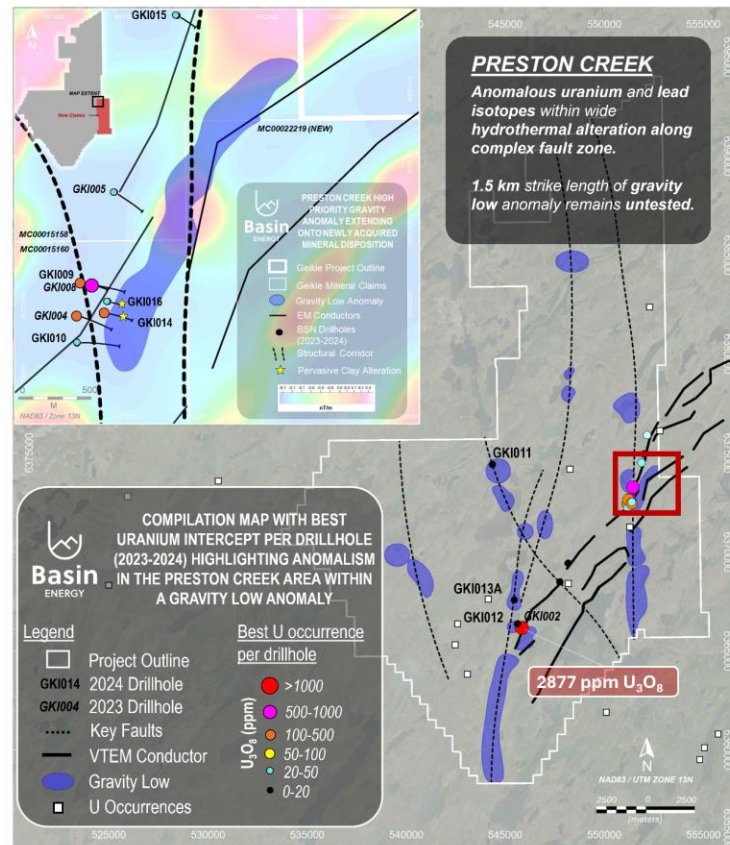
## Pathfinder Elements for Uranium Mineralisation, Specifically Lead Isotope Anomalies were Observed in 10 of the 16 Holes Drilled.

## Significant Structural Scale and Alteration

- Large structures capable of transporting mineralised fluid and host high-value deposits
- Extensive alteration confirms an active fluid system.
- Assays confirm uranium presence in the system.

## Multiple Near Surface Targets Defined for Future Drilling

- Targets derived from data geological gained through drilling, coupled with multilayer geophysical datasets.
- High-resolution airborne gravity has proven effective at mapping basement-hosted uranium alteration systems on the outer edge of the Athabasca Basin: numerous intense gravity lows associated with structural corridors identified at Geikie.



### Source Data:

Refer ASX Announcement Basin Energy (ASX:BSN), 20/09/2023 "Basin Energy Intersects Uranium Mineralisation up to 0.27% in Maiden Drilling at Geikie"

Refer ASX Announcement Basin Energy (ASX:BSN), 30/07/2024: Elevated Uranium Confirmed in Preston Creek Drilling.

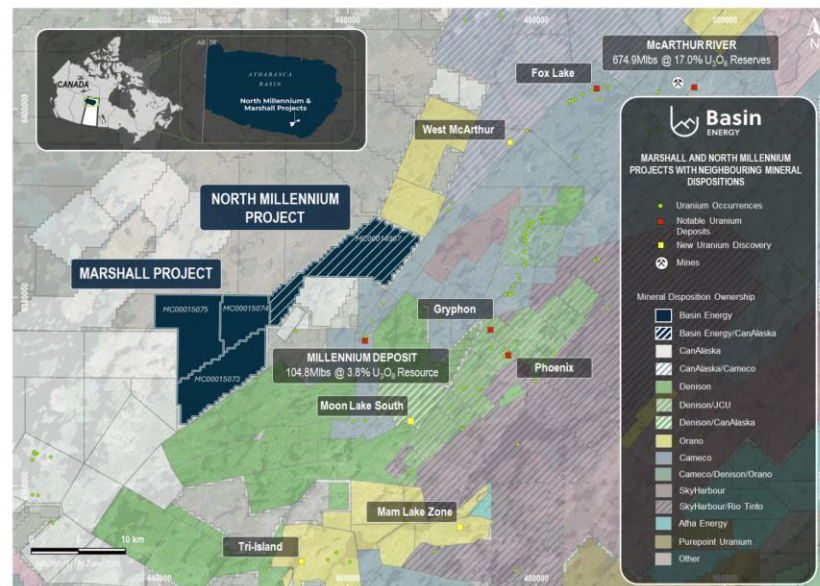
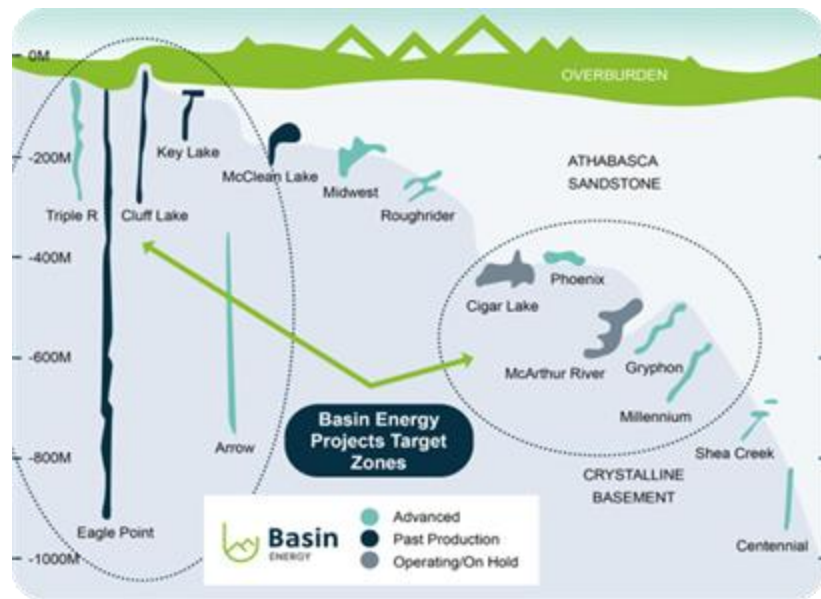
Refer ASX Announcement Basin Energy (ASX:BSN), 15/11/2023: Gravity Survey Identifies Significant Anomalies at Geikie.



# Marshall and North Millennium, Uranium's Proven neighborhood



Two Projects Located in Proximity to World-Class High-grade Uranium Discoveries and Mining Operations, Targeting Repeats of Traditional Unconformity Mineralisation



## Source Data:

IAEA Technical document 1857, Unconformity-related uranium deposits

Iso Energy TSX announcement, 18/07/2022, Initial Mineral Resource Estimate, inferred and indicated.

92 Energy ASX announcement, 25/08/2022, High-grade uranium confirmed at GMZ including 6.0m of 2.17% U3O8

Baselode Energy TSX announcement, 20/09/2022, Baselode Intersects Best Drill Hole To Date With 0.90% U3O8 Over 31.0 Metres Starting at 69.3 m True Vertical

CanAlaska TSX-V announcement, 22/10/2022, CanAlaska Confirms High-Grade Uranium Mineralization in New Uranium Zone at West McArthur

**Marshall Project: 100% BSN**

**North Millennium Project: 40% BSN, 60% CanAlaska Uranium**

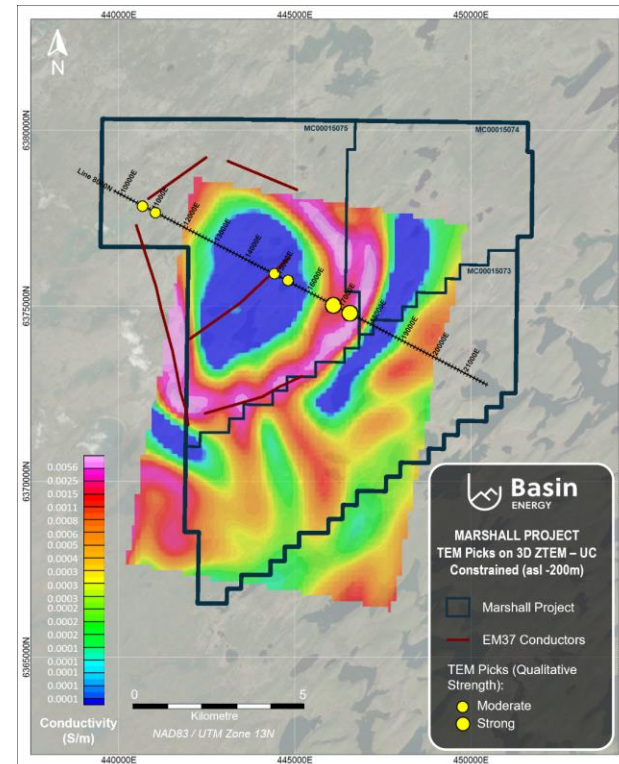
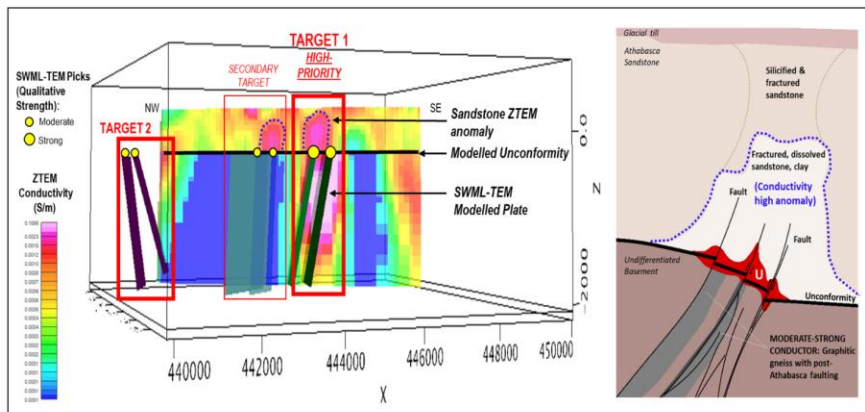


# 2024 Geophysics Identifies Unconformity Targets

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- **Ground EM** completed in 2024 has identified classic unconformity style uranium targets at **Marshall**
- Multi-phase geophysics identified **stacked anomalies**, refining drill target delineation
- The projects are located 15 km from the majority Cameco owned Millennium uranium deposit, and just 40 km from the world-class McArthur River uranium mine
- Alternative funding solutions are being actively assessed







# Basin Energy Nordic Region

## Uranium & Green Energy Metals



# Nordic Projects



**Basin has 100% interest in multiple licenses and applications within Sweden and Finland, deemed prospective for uranium and green energy metals**



**Sweden and Finland are globally attractive and proven mining jurisdictions** – continually ranked in the top 20 of the Fraser Institute global mining investment attractiveness index



**Strong current mining** – Sweden remains Europe's leading mining nation with 12 metalliferous mines, accounting for over 90% of European iron production, over 10% of European copper production and 35% of European zinc production.



**Diverse active exploration and mining community** – including Boliden Mining, Agnico Eagle Mines, Aura Energy, Mandalay Resources, TerraFame and Atalaya Resources



**Positive perception and government policies** – with strong favourable legislative frameworks in place, Scandinavia is positioned to be integral to the EU's Minerals Strategy, as Europe aims to ensure a secure and sustainable supply of critical minerals, crucial for the green and digital transitions



## Source Data:

Refer SGU <https://www.sgu.se/globalassets/produkter/publikationer/2024/statistics-of-the-swedish-mining-industry-2023--sgu-2024-1.pdf>

Refer European Critical Raw Materials Act [https://commission.europa.eu/strategy-and-policy/priorities-2019-2024/european-green-deal/green-deal-industrial-plan/european-critical-raw-materials-act\\_en](https://commission.europa.eu/strategy-and-policy/priorities-2019-2024/european-green-deal/green-deal-industrial-plan/european-critical-raw-materials-act_en)

Refer Swedish Minerals Strategy [https://rmis.jrc.ec.europa.eu/uploads/legislation/Sweden\\_MineralsStrategy\\_ENGLISH.pdf](https://rmis.jrc.ec.europa.eu/uploads/legislation/Sweden_MineralsStrategy_ENGLISH.pdf)

Refer National Minerals Strategy <https://julkaisut.valtioneuvosto.fi/handle/10024/165994>



# Nuclear Energy in the Nordic Region

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Basin has 100% interest in multiple licenses and applications within Sweden and Finland, deemed prospective for uranium and green energy metals



**Nuclear Energy in the Nordic Region**– Finland currently has 5 operable nuclear reactors, accounting for 35% of national power production Sweden currently has 6 operable reactors accounting for 40% of national power production, with 2 large scale reactors planned for construction before 2035, and deployment of SMRs before 2045



**Uranium Mining in Nordic Region**– Finland recently permitted uranium processing (as a by-product) at its Sotkamo Mine where uranium production commenced in 2024

Sweden is actively reviewing its uranium policies, paving the way for potential development.

- Ban on uranium mining legislated in Q3 2018
- Coalition government initial proposal to lift this ban Q4 2022
- Government inquiry commenced Q1 2024
- Inquiry recommended lifting of uranium mining ban Q4 2024
- Written consultation period concluded Q1 2025



Source Data:

Refer World Nuclear Association <https://world-nuclear.org/information-library/current-and-future-generation/nuclear-power-in-the-world-today>

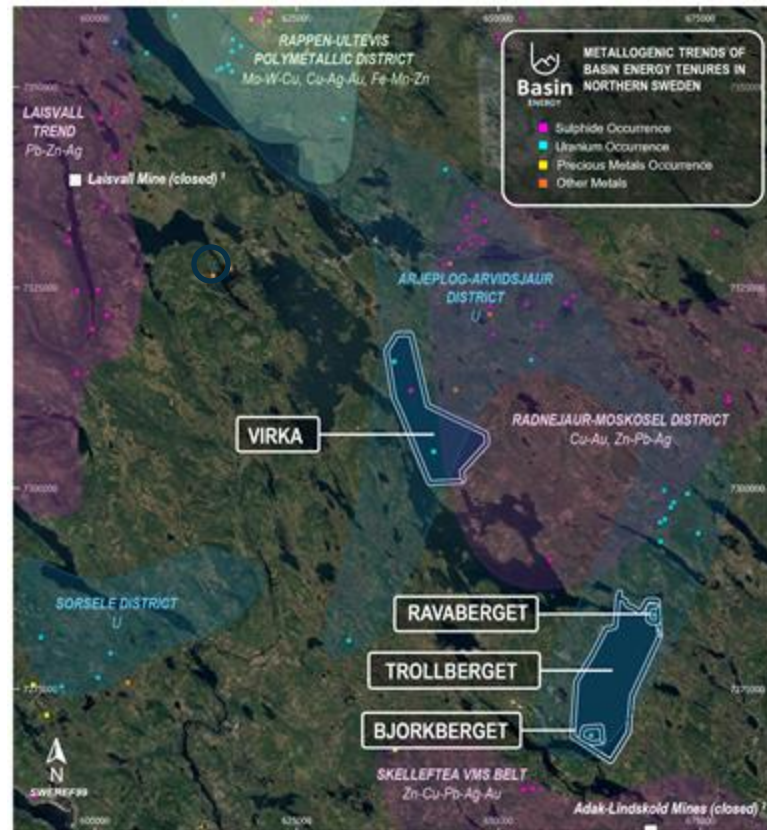
Refer Basin Energy ASX release dated 14/01/2025 "Scandinavian Exploration & Uranium Policy Update"





## Shear-hosted targets in a proven multi-commodity district

- **Large-scale opportunity** – ~200 km<sup>2</sup> over four projects (Virka, Ravaberget, Bjorkberget and Trollberget) in the *Arjeplog-Arvidsjaur uranium district* and *Radnejaur-Moskosel Base Metal district*
- **Readily accessible terrain** – Prospective terrain dominantly covered in a thin layer of glacial cover
- **Underexplored potential** – Minimal historic drilling, with uranium mineralisation confirmed in outcrops
- **Strong geological indicators** – Regional mapping and boulder tracing reveal multiple surface anomalies in lead, zinc, silver and gold associated with major NNE-trending structures



### Source Data:

Refer ASX Announcement Basin Energy (ASX:BSN), 04/02/2025: Basin Energy granted Trollberget licence, doubling landholding in the Arvidsjaur-Arjeplog uranium district .

Refer ASX Announcement Basin Energy (ASX:BSN), 31/10/2024: Acquires Scandinavian Uranium and Green Energy Metals Portfolio













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# The Global Critical Minerals Supply Gap

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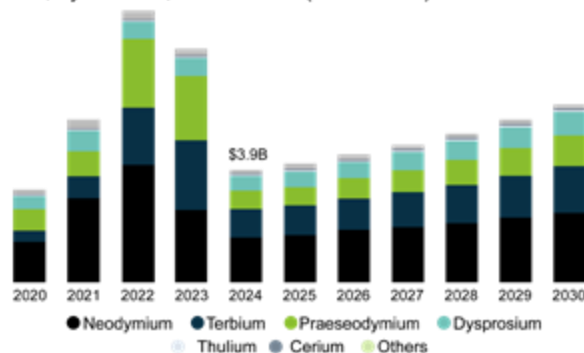


The world's electrification and decarbonisation plans are driving surging demand for uranium & rare earth elements.

Uranium enables clean baseload power through nuclear energy, while REEs are essential for EVs, wind turbines, and advanced technologies. Current supply chains cannot meet this demand, creating an urgent need for new, secure sources in Tier-1 jurisdictions.

## Rare Earth Elements Market

Rare Earth Elements Market  
Size, by Product, 2020 - 2030 (USA Billion)

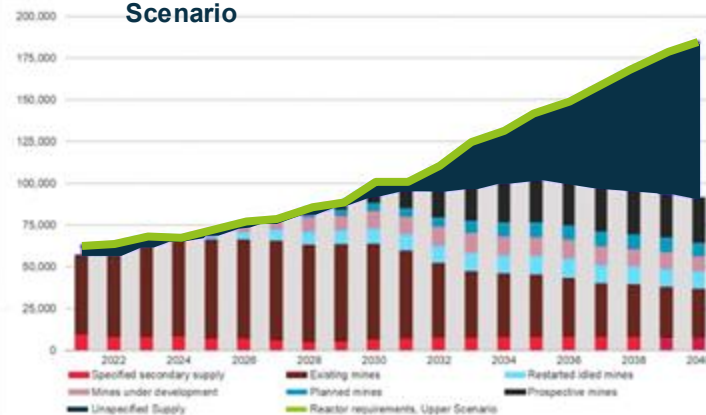


8.6%  
Global Market CAGR,  
2025 -2030

Source Data : <https://www.grandviewresearch.com/industry-analysis/rare-earth-elements-market>

## Uranium Market Momentum

WNA 2023 Supply vs Demand Upper  
Scenario



Source Data : WNA Nuclear Fuel Report: Global Scenarios for Demand and Supply Availability 2023-2040





## Uranium Market Highlights

- World Nuclear Association forecasts show 28% growth in uranium demand from 2023–2030, and a further 51% demand increase between 2031–2040, tied to nuclear reactor expansion globally (*discoveryalert.com.au+5world-nuclear.org+5Weiss Ratings+5*)
- Cantor Fitzgerald forecasts a cumulative primary supply deficit of 1.29 B lb  $U_3O_8$  from 2024–2040, reinforcing long-term structural supply risk (*cantorcanadaresearch.com+1visualcapitalist.com+1*)
- TradeTech sees persistent gaps of 5–7% per annum by 2025, driven by reactor buildouts and decline of secondary sources (*visualcapitalist.com*)
- Geopolitical factors—like Kazakh supply restrictions—are reinforcing demand urgency in Western markets (*ft.com, cruxinvestor.com*)

## Rare Earth Element Demand Trends

- The International Energy Agency (IEA) reports magnet-REE demand rising from ~11 kt in 2023 to ~47 kt by 2040, yet primary supply remains insufficient unless new projects scale rapidly (*IEA*)
- Adamas Intelligence forecasts magnet-REE consumption will increase five-fold by 2040, outpacing projected market growth and straining supply chain resilience (*Adamas Intelligence+1uwyo.edu+1*)
- Market research anticipates REE tonnage demand rising from ~197 kt in 2025 to ~260 kt by 2030, with CAGR ~5.8% (*mordorintelligence.com*)
- Industry demand is driven by rapid EV deployment, wind generation, and digital infrastructure buildouts, demonstrating both application diversity and volume risk. (*visualcapitalist.com*)