



Developing a Highly Prospective Energy Minerals Portfolio in World Class Locations

Investor Presentation
January 2025



ASX:CR3
coreenergyminerals.com.au

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Developing a Highly Prospective Critical Minerals Portfolio



High potential asset portfolio

Uranium and Rare Earth Elements (REE) located in safe, stable jurisdictions of Australia, Brazil and Namibia



Phased exploration program across Uranium and REEs

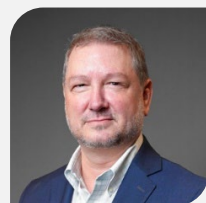
Based on early exploration success and analysis of historic drilling



Leadership experienced in the discovery of world class mineral deposits

And realising shareholder value

Board with Track Record of Creating Shareholder Value



Tony Greenaway
Executive Director

Senior geologist with +30 years international mining and exploration experience in Australia, Brazil, Chile, Argentina, southern Africa.

Extensive experience across exploration, development and production of copper, gold, PGE, iron-ore and lithium projects, including most recently rapidly de-risking the world class Salinas Lithium Deposit for Latin Resources (ASX:LRS) from discovery through to the Company's proposed sale for circa \$600m.



Chris Gale
Non-Executive Chairman

25-year career in commercial and financial roles in public and private companies, and a track record of commercial outcomes with the proposed sale of Latin Resources (ASX:LRS) to Pilbara Minerals (ASX:PLS) for circa \$600m.



David Vilensky
Non-Executive Director

Practicing corporate lawyer and experienced listed company director. +35 years' experience in corporate and business law and in commercial and corporate management.



Christopher Wiener
Non-Executive Director

Chartered Accountant and Portfolio Manager at Norfolk Capital Management. Experienced in corporate finance, equity capital markets and corporate advisory services to small and mid-cap listed resource and industrial companies.



Charles Nesbitt
Exploration Manager

Experienced uranium geologist with over 25 years of extensive experience in the uranium industry, having worked at all of Australia's operating and formerly operating uranium mines, and has also worked across a number of different projects and commodities in undeveloped soft and hard rock uranium deposits and exploration projects throughout Australia and US.

Capital Structure*

ASX Code **CR3**

Shares on Issue **365.7m***

Share Price
(28 January 2025) **\$0.019**

Market Capitalisation **\$6.9m***

Cash & Available
Funding **\$3.7m***

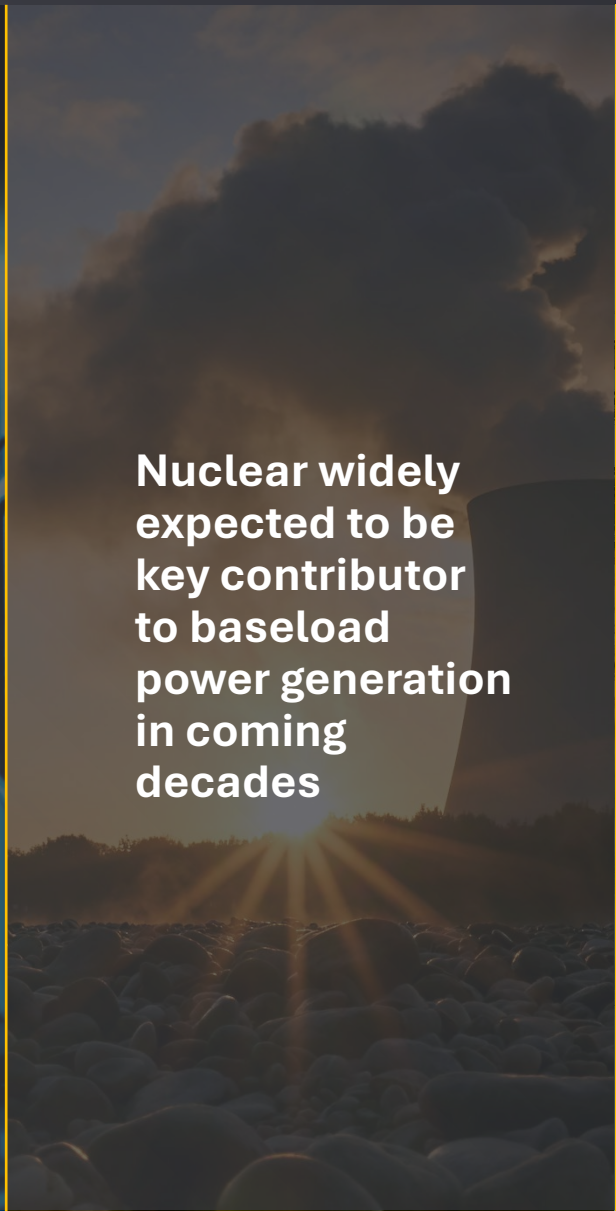
Top 20 Shareholders **31%**

*Post 28 January 2025 Capital Raising Announcement

Headlines: In the News




**Major tech firms
Microsoft | Google
| Amazon go
nuclear to meet
AI data center
demand**



**Nuclear widely
expected to be
key contributor
to baseload
power generation
in coming
decades**



**World SMR
pipeline expands
by 65% since
2021; uranium
supply challenges
persist**

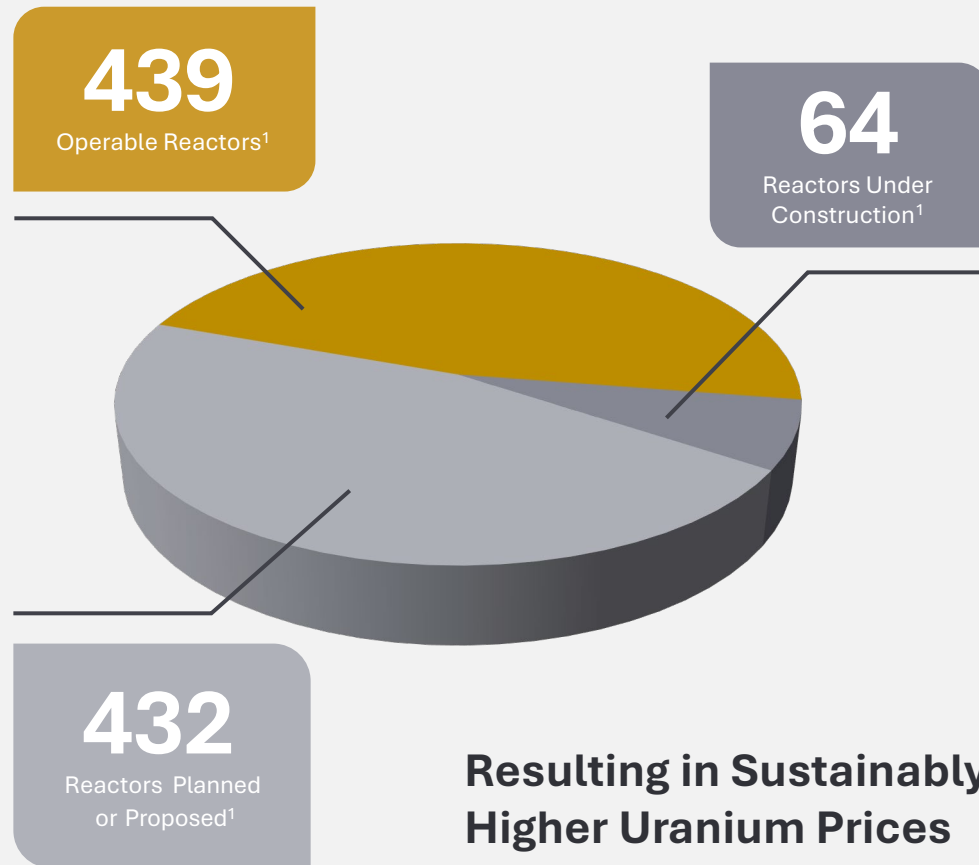


**Brazil boosts
uranium
exploration
response to
growing global
demand**

Uranium Market is Structurally Undersupplied

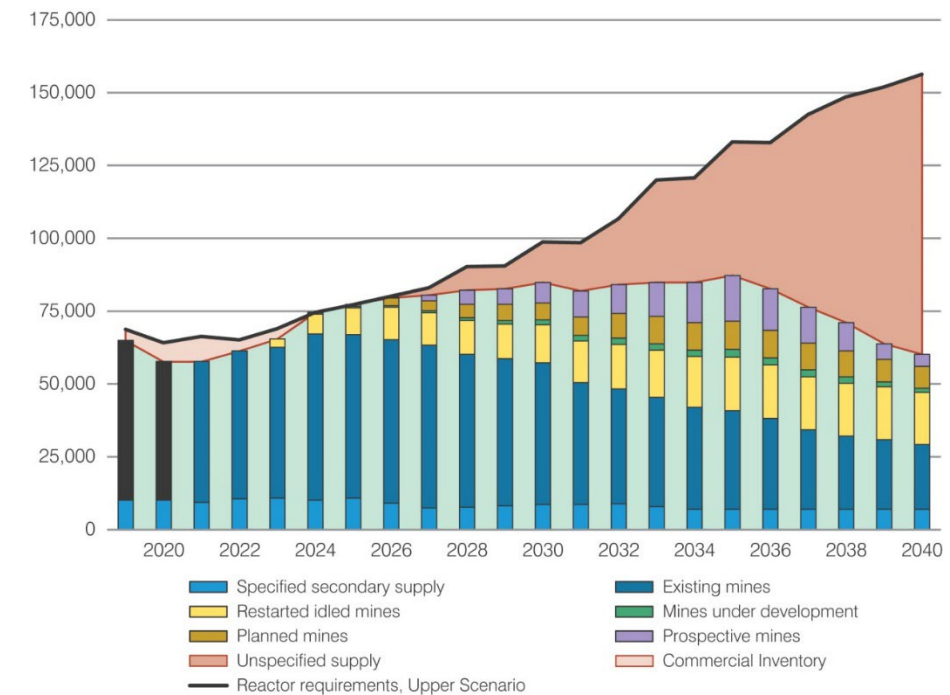
Significant REE and Uranium Potential

Global Reactor Count



Upper Scenario for Uranium Supply and Demand, tU

WORLD NUCLEAR
ASSOCIATION



1. <https://www.world-nuclear.org/information-library/facts-and-figures/world-nuclear-power-reactors-and-uranium-requireme.aspx>

Projects in World Class Locations

Brazil

Uranium & Rare Earth Projects
~880km² tenure

Namibia

Uranium Projects
neighbouring operating mines

Australia

Uranium Projects
successful prior exploration

Amorinópolis

São José

Grande

Tunas

Namibia

Harris Greenstone

Cummins

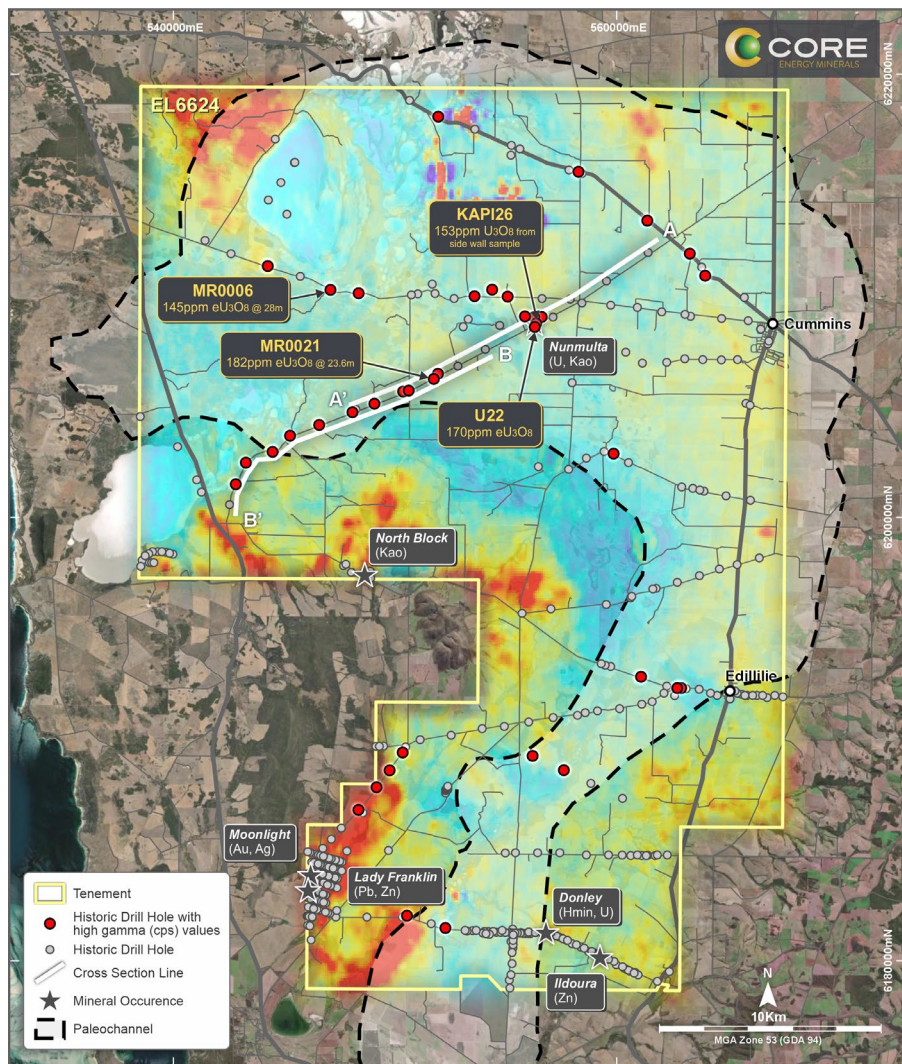
Eyre Peninsula

Australia: South Australian Project Acquisitions



- South Australian assets acquired for modest, primarily milestone-based scrip consideration.
- Strongly complementary of existing projects, located proximal to regional infrastructure, skilled labor force and service providers.
- South Australia is home to several major Uranium mines and development projects such as BHP's Olympic Dam, Boss Energy's (ASX:BOE, market cap >\$1b) Honeymoon Project and Alligator Energy Limited's (market capitalisation ~\$150m, ASX:AGE) Samphire Uranium Project.
- Historic exploration has proven the Projects are highly prospective for uranium mineralisation, with drill ready targets identified.
- Recently appointed Exploration Manager, Charles Nesbitt is an experienced uranium geologist based in Adelaide. Charles has worked at all four of Australia's operating uranium mines and will spearhead the Company's South Australian exploration programs.

Australia: Cummins Project



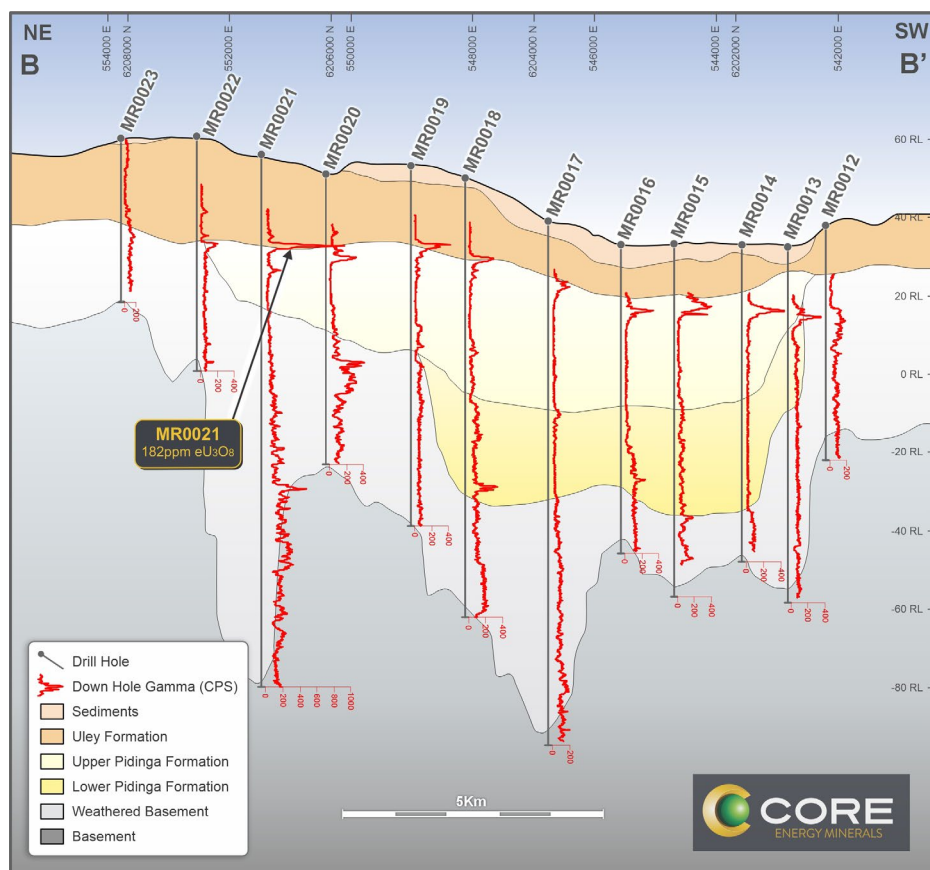
Project Acquisition

- \$30,000 cash upfront and scrip consideration over three stages:
 - \$150,000 upon completion of due diligence and access
 - \$100,000 upon commencement of board approved drilling campaign and
 - \$175,000 upon delineation of a JORC Resource of 10Mlb uranium equivalent at the project.

Project Overview

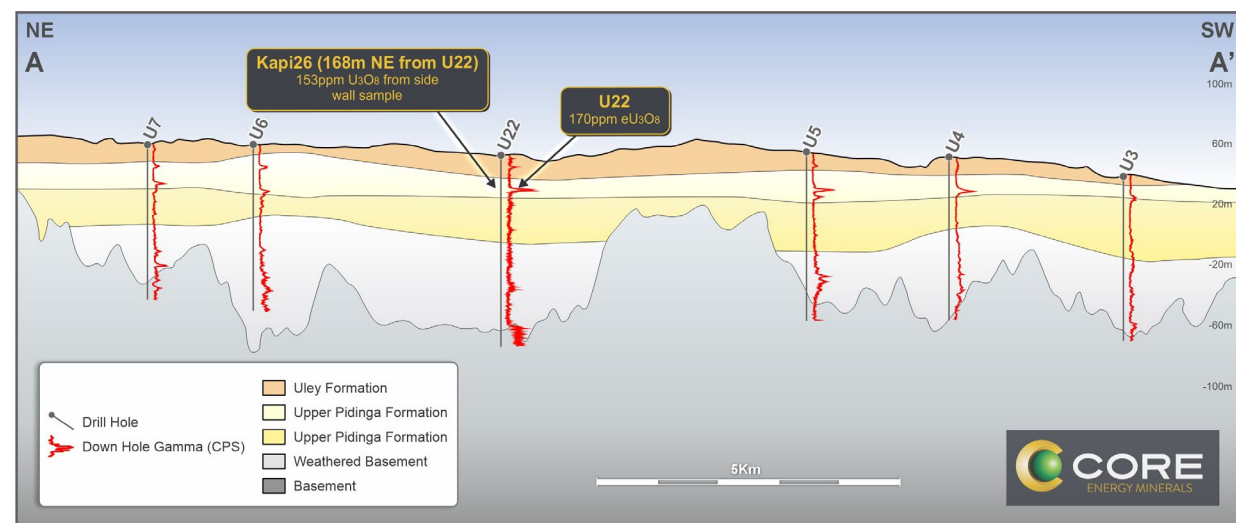
- Exploration Lease EL6624 - 952km²
- Eyre Peninsula is one of the highest radiometric provinces in South Australia, with proven Uranium potential and host to Alligator Energy's Samphire Uranium Deposit (ASX:AGE).
- Project previously held by Areva, the French multinational nuclear power company, with historic exploration highlighting widespread uranium mineralisation and elevated down hole gamma anomalies.
- Two high quality target horizons within the extensive, defined palaeochannel system showing signs of near surface uranium mineralization.
- Additional potential for near-surface calcrete hosted uranium deposit targets, with anomalous outcrop/ calcrete sampling.
- In close proximity to the Company's existing Eyre Peninsula Project – current works underway to determine uranium prospectivity of this ground (prior focus on graphite).
- Value generation through walk-up drill targets confirming and expand on historic mineralised intercepts.
- Proposed that initial drilling campaigns will occur on road reserves and free-hold land for accelerated access.

Australia: Cummins Project

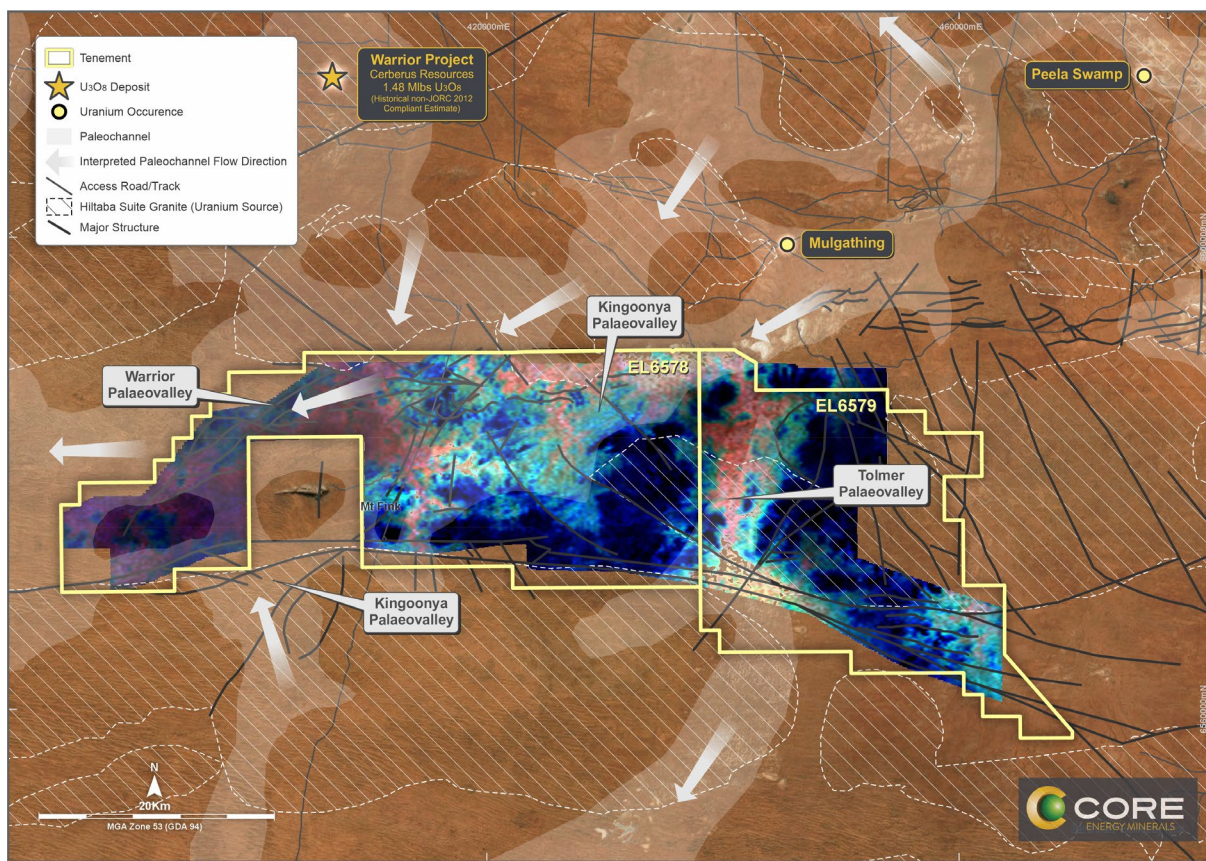


Project Overview

- Exploration in the 1970's identified suitable uranium trap sites within the tertiary basin sediments at redox boundaries, from wide spaced (~1km) reconnaissance drilling.
- Broad, shallow zones, over greater than 10km, of anomalous gamma were identified from historical drilling and later confirmed by French state-owned uranium exploration company Areva in 2009.
- No follow-up uranium exploration has been carried out since Areva relinquished its ground in 2014.
- Core will undertake shallow air-core drilling to confirm historic anomalism, in parallel with a wider systematic exploration campaign.



Australia: Harris Greenstone Project



Project Acquisition

- \$30,000 cash upfront and scrip consideration over three stages:
 - \$150,000 upon completion of due diligence and access.
 - \$100,000 upon commencement of board approved drilling campaign.
 - \$100,000 upon delineation of a JORC Resource of 10Mlb uranium equivalent at the project.
 - 1% net smelter royalty in respect of all products extracted and sold or otherwise disposed of, by CR3, from the Harris Greenstone Project¹.

Project Overview

- Exploration Leases EL6578 and EL6579 for a combined total of 1,350km²
- Project Area is located in the Yellabinna Regional Reserve.
- Untested well-defined palaeochannels surrounded by Hiltaba Suite Granite (a well known source for uranium).
- Adjacent uranium deposit and occurrences indicate that the palaeochannel system is mineralized.
- High quality regional geophysical data set (VTEM, Magnetics, Radiometrics).
- High priority targets immediately identifiable from geophysics.
- Has a current NTMA 9B Access Agreement signed with the Far West Coast Aboriginal Corporation which accelerates access.
- Also prospective for Ni, Cu, REE, Au

Note 1: OAR retains the right to buy out the Harris Greenstone Vendors' Royalty for \$5m

Brazil: A Tier 1 Mining Jurisdiction



CR3's projects are easily accessible with industrial infrastructure at surrounding projects

Home to **one of the world's largest Uranium reserves** and **3rd largest Rare Earth Elements (REE) reserves***

Safe, stable, mining friendly local and national government, with established regulatory regime

World class professional labour force and **strong support from local communities**, 85% renewable Energy, ~5c per Kwh

* Source: 2022 Uranium production: www.world-nuclear.org

Brazil: Memorandum of Understanding (MoU) with INB



INB, Indústrias Nucleares do Brasil, is the Brazilian state-owned entity responsible for developing and commercialising nuclear materials

CR3 executed a Memorandum of Understanding with INB in August 2024, to collaborate on the development of potential REE and uranium feedstocks

The MoU provides CR3 with the opportunity to work with INB to advance its exploration activities and provide investors with exposure to the recently reinvigorated Brazilian uranium potential

A transformative and historic milestone for CR3, with the opportunity to be a first-mover in the hunt for uranium within Brazil

The MoU follows CR3's 283% expansion of its highly prospective Brazilian uranium landholding from 230km² to 880km²

Brazil: High Quality Diversified Portfolio



📍 Amarinópolis - Goiás

2 new uranium prospects identified within prospective sandstone lithologies that are known to host 40% of globally inferred uranium resources.

Less than 5% of **320km²** tenement package has been surveyed with a scintillometer.

📍 São José - Paraíba

Magnetite and garnet rich gneiss identified. Same lithology that hosts high grade ore at Brazil’s only operating uranium mine, Caetite.

Mineralisation is interpreted to be structurally controlled, like the nearby Espinharas and REE Uranium deposit.

📍 Grande - Rio Grande do Sul

Tenements host prospective lithologies: sandstone and conglomerates.

Nearby historic uranium occurrences hosted in same lithologies.

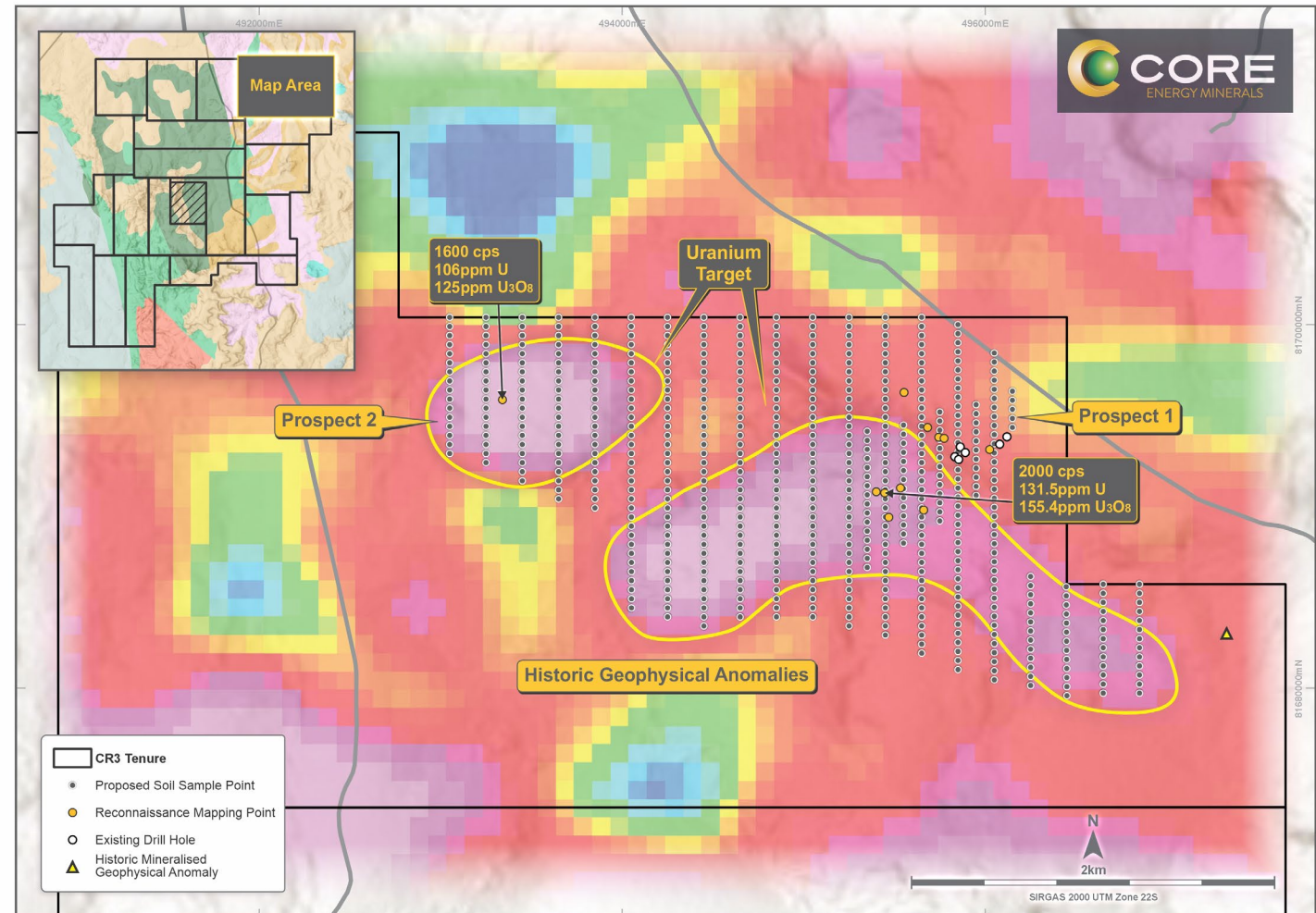
📍 Tunas - Paraná

CR3 tenure surrounds the largest alkaline intrusive complex in Southern Brazil.

Brazil: Amarinópolis Uranium Project – Encouraging Results



- Multiple surface Uranium anomalies with values of up to 131.5ppm Uranium (155.1ppm U₃O₈++) and minimal thorium
- Two distinct uranium prospects identified from surface scintillometer surveys with multiple Uranium values in excess of 100ppm
- Historic data collection in progress: Nuclebrás 1970s holes found at several locations
- Follow-up soil sampling program and airborne radiometric survey to guide further exploration and delineate drill targets (Q2 2025)
- Additional reconnaissance mapping over remainder of the project area (Q3 2025)

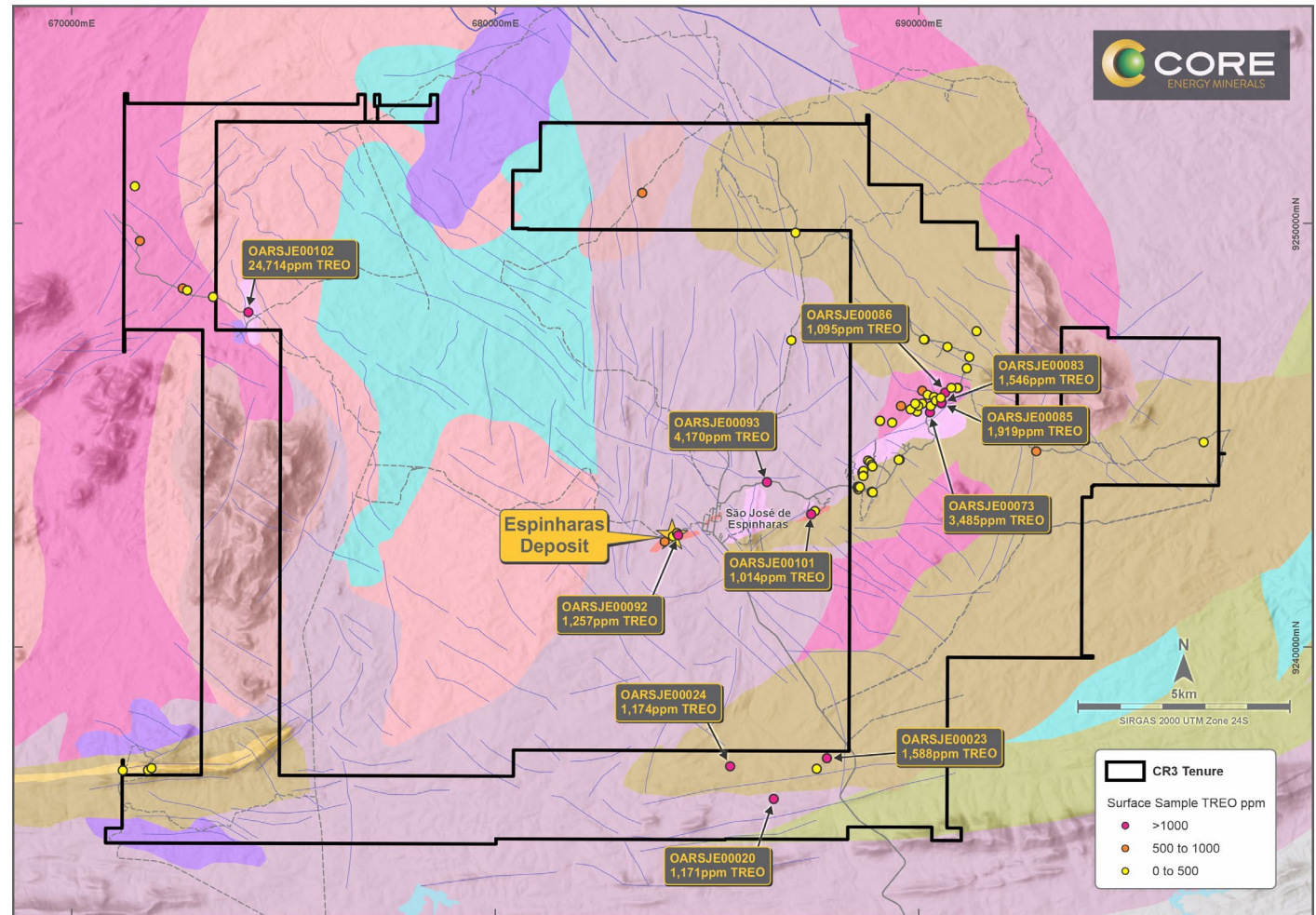


** Standard stoichiometric conversion used: U to U₃O₈ - 1.1792

Brazil: São José REE/ Uranium Project – Paraíba



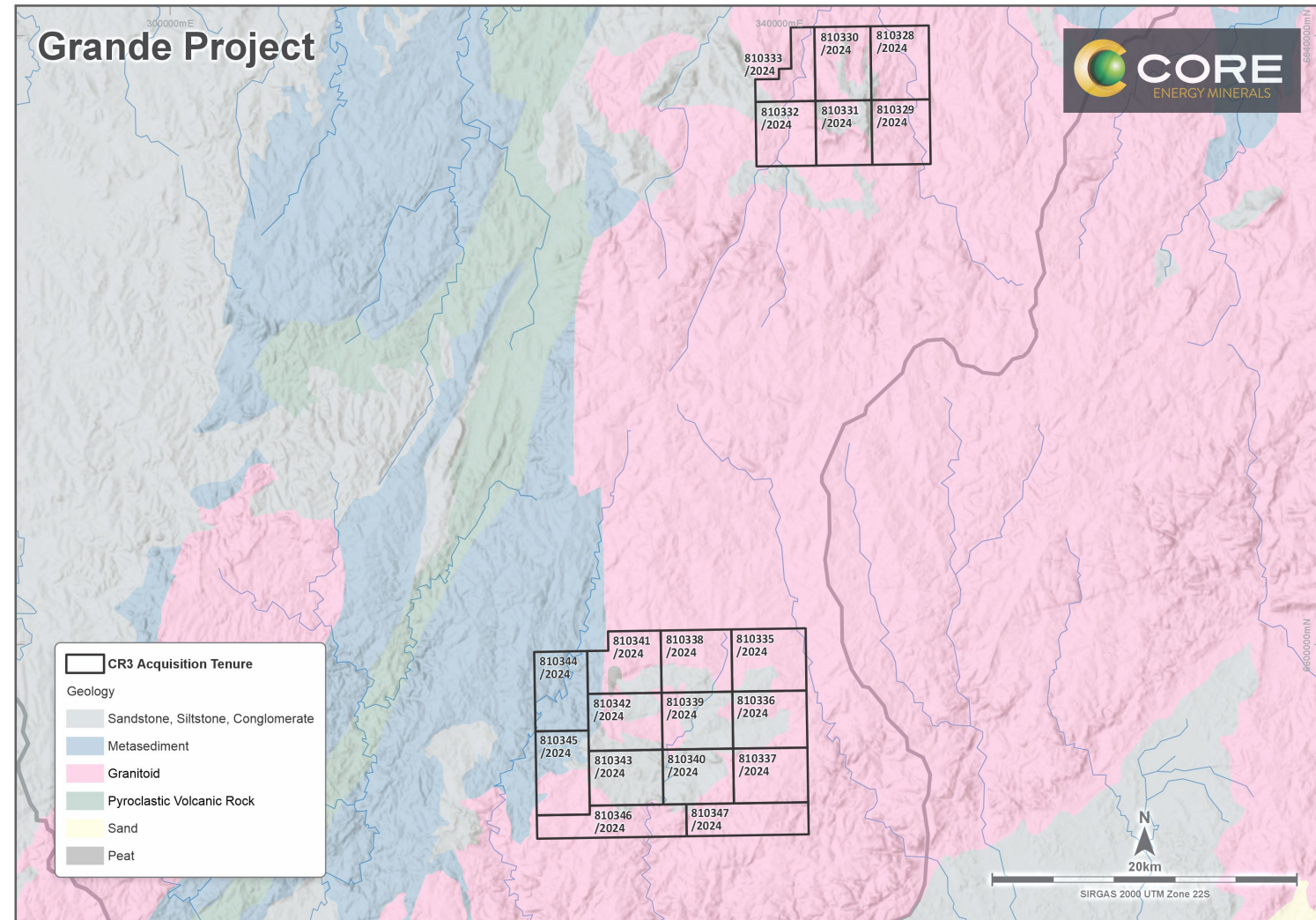
- **11 granted tenements covering interpreted extension of trend from the historic (1970s) São José de Espinharas Deposit**, which hosts an unverified 22Mlbs of U_3O_8
- CR3 field program identified several areas of interest and highlighted that mineralisation is structurally controlled
- **More detailed mapping and geophysics planned** to better understand the structures and substructures present. (Q2 2025)
- **MOU with INB to share exploration knowledge:** INB recently recommenced exploration at their Espinharas Uranium Deposit



Brazil: Grande Uranium Project – Rio Grande do Sul



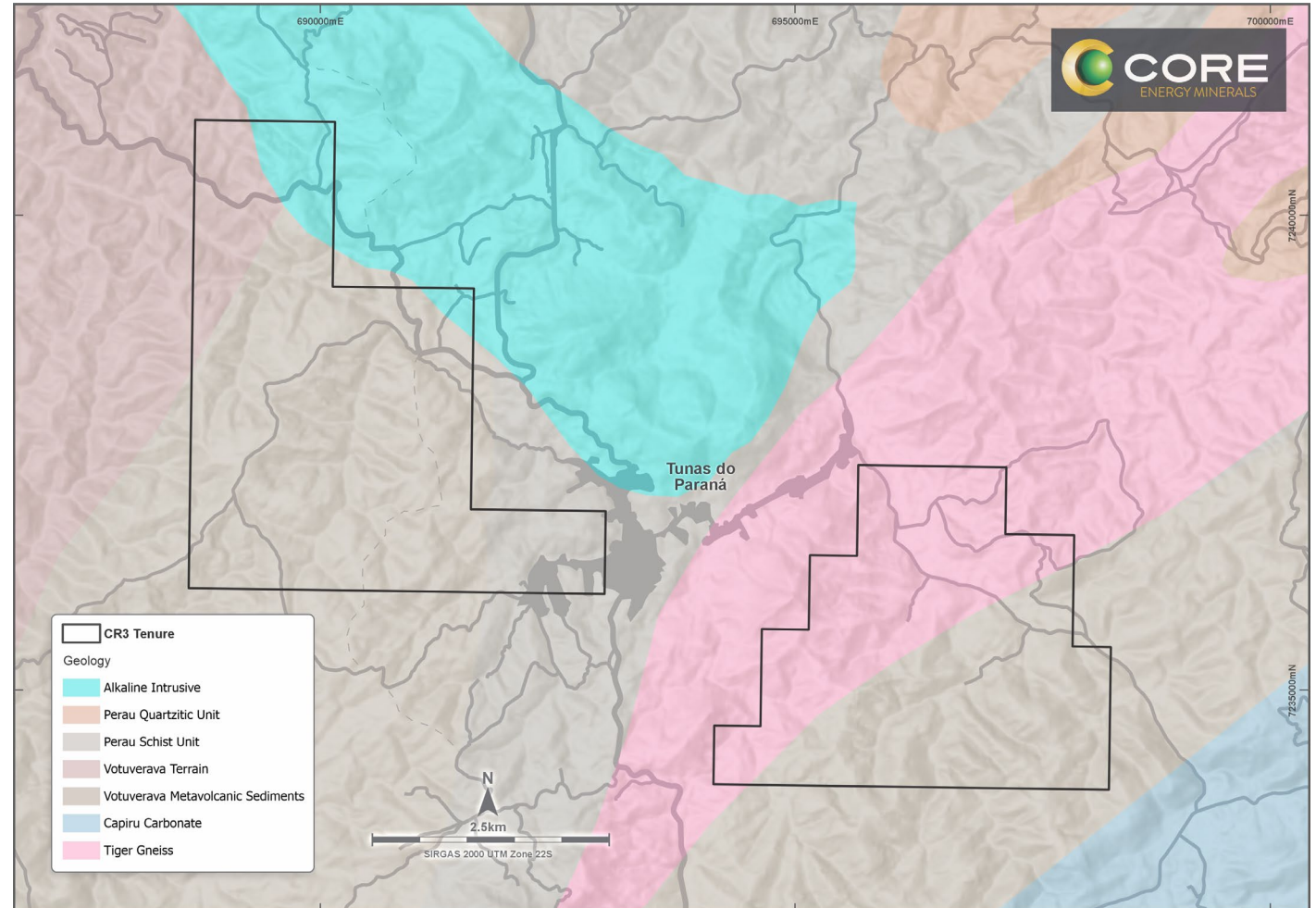
- 330.3km² tenure in the state of Rio Grande do Sul.
- Exploration targeting the Rio Bonita and Sanga do Cabral Formations , which host the INB uranium occurrence 4km to the north.
- Surficial reconnaissance mapping, outcrop sampling and scintillometer surveys planned for Q3 & Q4 2025.
- Follow-up work to include systematic soil sampling to define drill targets



Brazil: Tunas REE Project – Paraná



- CR3 holds two tenements covering a combined 23.4km² in the state of Paraná
- Prospective for REE mineralisation associated with the weathering of the Tunas Alkaline Complex (TAC), which is the largest REE-enriched Alkaline Intrusive in Southern Brazil
- Reconnaissance exploration program scheduled to commence when formal land access is granted (Q3 2025)
- Proposed follow-up exploration for potential Ionic Adsorption Clay (IAC) hosted REE deposits is via inexpensive auger drilling (Q4 2025)



Namibia: Tier 1 Uranium Producer



Namibia is one of the largest Uranium producing countries, with a long history of profitable exploration, mining and extraction



Three large-scale uranium mines: Rössing, Langer Heinrich and Husab
45-years of uranium production and export



Clear and established mining code and strong rule of law
Strong community and social support for uranium



Third largest uranium producer globally, accounting for
11% of global production*

**Uranium: one of the world's most
important renewable energy minerals**

* Source: 2022 Uranium production: www.world-nuclear.org

Namibia: Cultivating a World Class Uranium Portfolio



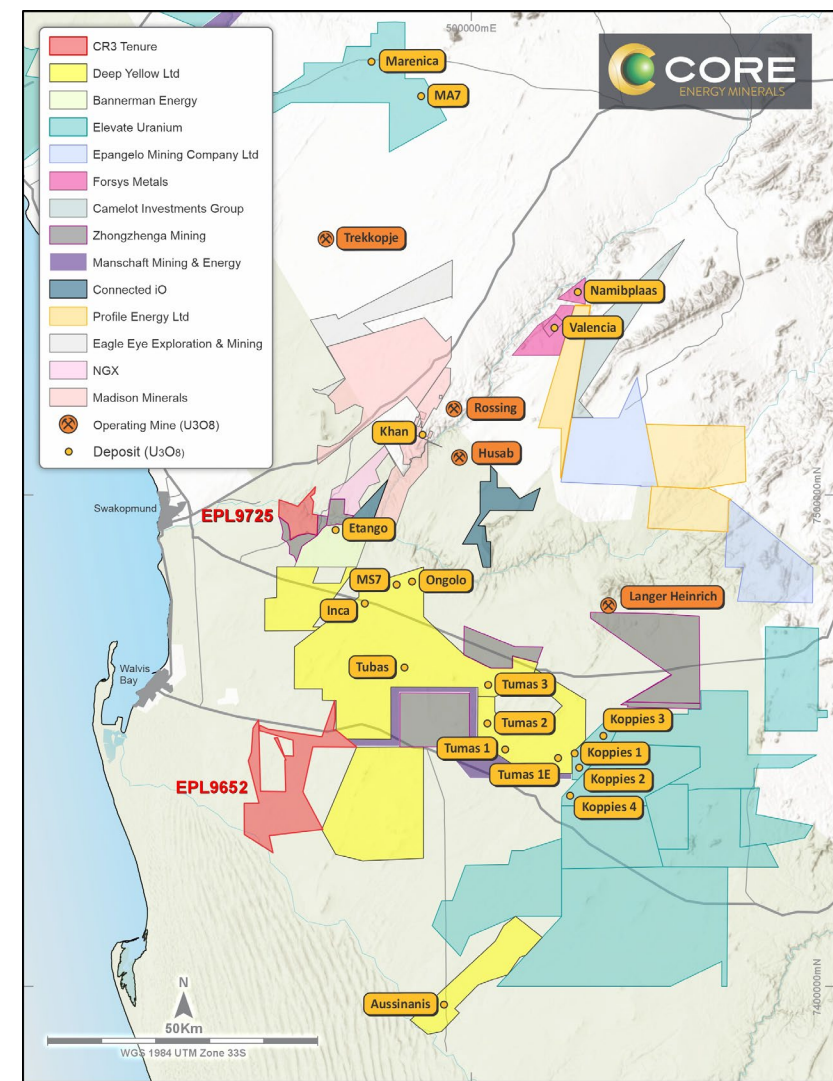
- CR3 holds 100% interest in two uranium projects under application within the highly prospective Erongo region of Namibia
- Gemsbok and Oryx Uranium Projects neighbour some of the world’s largest and most prolific uranium deposits, with comparable exploration targets
- Excellent infrastructure including access to Namibia’s largest port (~50km) with existing uranium export, well-maintained roads, rail and established power networks
- In-country team in place to assess projects and navigate the Namibian regulatory system

Gemsbok (EPL 9725)

- Located to the Northeast of Bannerman Energy (ASX:BMN) Etango Deposit which hosts 207Mlbs of U_3O_8 *
- Similar geological setting as BMN’s deposit, in an area identified to be favourable to hosting mineralised Alaskites

Oryx (EPL 9652)

- Located to the Southeast of Deep Yellow’s (ASX:DYL) Tumas and Tubas deposits, which host 120.9Mlbs and 18.8Mlbs of U_3O_8 respectively
- Similar geological setting as DYL’s deposits, in an interpreted calcrete horizon



Tenement map of CR3 Gemsbok and Oryx Uranium Projects, Namibia

Developing a Highly Prospective Critical Minerals Portfolio



	2025			
	Q1	Q2	Q3	Q4
Australia				
Cummins Project	Reconnaissance mapping & permitting	Air-core Drilling		
Harris Greenstone Project	Reconnaissance mapping, target identification		Air-Core Drilling	
Brazil				
Amorinópolis Uranium Project *		Soil sampling, Geophysics, Mapping	Drilling	
São José Uranium Project		Mapping, Geophysics, Soil sampling	Drilling	
Grande Uranium Project *			Mapping, Geophysics, Soil sampling	Drilling
Tunas REE Project*			Mapping, Geophysics, Soil sampling	Drilling
Namibia				
Namibia Projects*			Reconnaissance mapping, surface sampling, target identification	

* Timeline dependent upon obtaining requisite tenure/permits

How do we get to Net Zero by 2050?

68%

Increase in energy
consumption in
last 30 years

Currently

54%

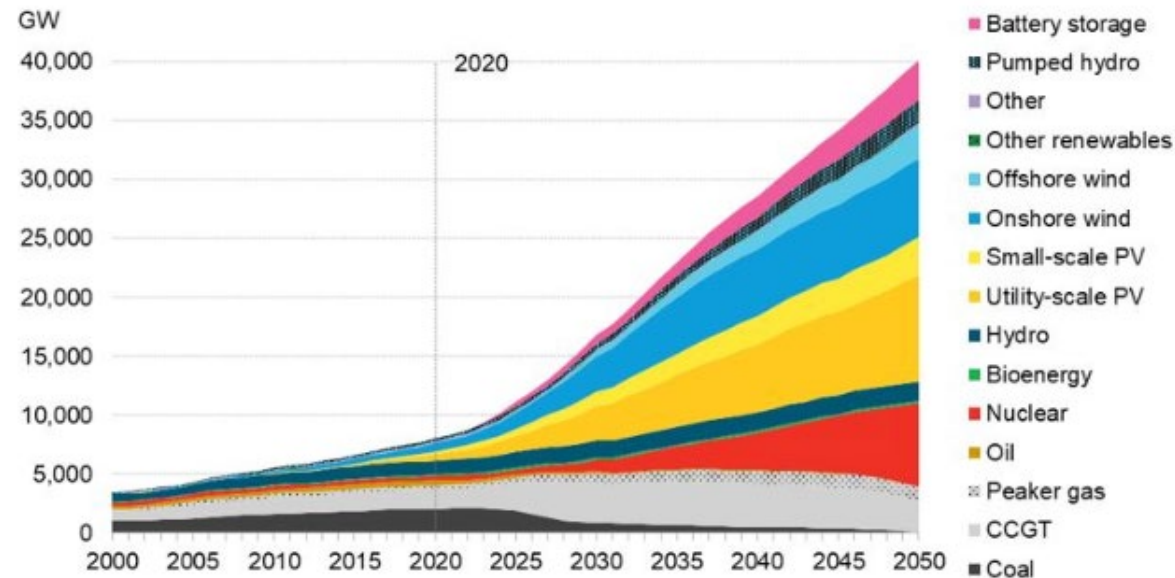
Coal & Oil

3.98%

Nuclear

Global primary energy consumption by source

Primary energy consumption is measured in terawatt-hours, using the substitution method.



Bloomberg

Data source: Energy Institute - Statistical Review of World Energy (2024); Smil (2017)

**The role of nuclear
energy is essential in
meeting climate
change targets**

**Nuclear power plants
produce no greenhouse
gas emissions during
operation, and over the
course of its life-cycle**

**Nuclear hybrid systems
can contribute to
avoiding nearly 23
gigatonnes of
cumulative emissions
between 2020 and 2050**

Competent Person Statement



The information in this presentation for Core Energy Minerals Ltd was compiled by Mr Charles Nesbitt, a Competent Person, who is a member of the Australasian Institute of Mining and Metallurgy. Mr Nesbitt is an employee of Core Energy Minerals Ltd. Mr Nesbitt has sufficient experience, which is relevant to the style of mineralisation and types of deposits under consideration and to the activity to which he is undertaking to qualify as a “Competent Person” as defined in the 2012 Edition of the ‘Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves.’ Mr Nesbitt consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

All references to original source information are included as footnote and endnote references as indicated throughout the presentation where required.

No new information that is considered material is included in this document. All information relating to exploration results has been previously released. The Company confirms that it is not aware of any new information or data that materially affects the information in the relevant announcement.

These announcements may be viewed at www.coreenergyminerals.com.au and www.asx.com.au. The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcements. The Company confirms that the form and context in which the Competent Person’s findings are presented have not been materially modified from the original market announcement.

Announcements Referenced in this presentation.

- ASX Announcement – 29 May 2024: OAR Expands Brazilian Uranium Footprint
- ASX Announcement – 3 April 2024: OAR Expands Into World Class Uranium Mining Region
- ASX Announcement – 7 August 2024: OAR Signs MoU with INB
- ASX Announcement – 2 September 2024: OAR Confirms Uranium Mineralisation at Amorinopolis (Amended)

Authorisation

This presentation has been approved for issue by the Board of Core Energy Minerals Ltd

Cautionary note relating to historic exploration results



Note:

- Exploration Results above have been previously reported by the previous explorers as noted in the highlighted footnotes;
- Some historic exploration was undertaken and reported in the mid 1970's prior to the adoption of the JORC code and between 2010-2014 as such some of these results may not conform to the requirements in the JORC Code 2012;
- Core Energy is unable to determine the accuracy of all drilling results from the 1970's, however Core Energy is of the opinion that drilling undertaken by Areva Exploration PL between 2012 -2014 should be reliable under current standards. Historical 1970's reports list some details of drilling type including RC mud drill hole; however no details of hole survey location, sampling or analytical methodology are mentioned. Reports do indicate that detailed geological logging of drill cuttings was undertaken;
- Exploration programmes noted in historic records include: reconnaissance drilling by Endeavour Oil Co. NL in the early 1970's and Le Nickel (Aust) Exploration Pty Ltd in 1972, follow-up drilling by Uranerz (Australia) PL in 1976, and Mud Rotary drilling and ground-based gravity surveys by Areva Exploration PL between 2010-2014;
- Core Energy has not identified any additional exploration results or data relevant to understanding these Exploration Results;
- Core Energy will complete several twin aircore drillholes and detailed analytical testwork on samples collected through independent contractors and laboratories to, where possible validate the historic results noted above, detailed hole location surveys will be completed for new holes undertaken by Core Energy and any historic drill collars should they be identified in the field. All new activities undertaken by Core Energy will be reported in accordance with the JORC Code 2012.
- Core Energy will undertake the proposed exploration work within the first half of 2025. The Company is fully funded to undertake these exploration activities;
- Core Energy cautions that these reported Exploration Results:
 - the Exploration Results have not been reported in accordance with the JORC Code 2012;
 - a Competent Person has not done sufficient work to disclose the Exploration Results in accordance with the JORC Code 2012;
 - it is possible that following further evaluation and/or exploration work that the confidence in the prior reported Exploration Results may be reduced when reported under the JORC Code 2012;
 - nothing has come to the attention of the acquirer that causes it to question the accuracy or reliability of the former owner's Exploration Results; but
- Core Energy has not independently validated the former owner's Exploration Results and therefore is not to be regarded as reporting, adopting or endorsing those results.



For further information, please contact:

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