Advancing the USA's largest measured

uranium deposit



RIU Resurgence Conference

22 November 2023

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"Measured Resources", "Indicated Resources" and "Inferred Resources" are to those terms as defined in the JORC Code.

Information in this presentation relating to Exploration results and Mineral Resources is based on information compiled by Mr Lauritz Barnes (a consultant to Aurora Energy Metals Limited and a shareholder) who is a member of The Australian Institute of Mining and Metallurgy and The Australian Institute of Geoscientists. Mr Barnes has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person under the 2012 Edition of the Australasian Code for reporting of Exploration Results, Mineral Resources and Ore Reserves. Mr Barnes consents to the inclusion of the data in the form and context in which it appears.

Previous Disclosure:

Information in this announcement is based on the following Aurora Energy Metals Limited Announcements, which are available from the Company's website, www.auroraenergymetals.com.au or the ASX website.

- 16 May 2022 Prospectus
- 16 June 2022 Encouraging lithium assays received
- 27 September 2022 Aurora Energy Metals Project Update
- 19 October 2022 Drilling to Commence at Aurora Energy Metals Project
- 23 November 2022 34% Increase in Total Uranium Resource to 50.6 Mlbs Maiden Measured Resource Declared at Aurora Uranium Deposit
- 17 January 2023 Thick Lithium & Uranium Zones Returned Maiden Drill Program
- 14 February 2023 Further Assay Results for AEMP
- 22 February 2023 Final Assay Results for 2022 Drilling
- 26 April 2023 Positive Review of Historical Uranium Testwork

This announcement has been authorised for release on the ASX by Greg Cochran, Managing Director.

Overview



• Why uranium?

Why US Uranium?

Why Aurora?

Overview



• Why uranium?

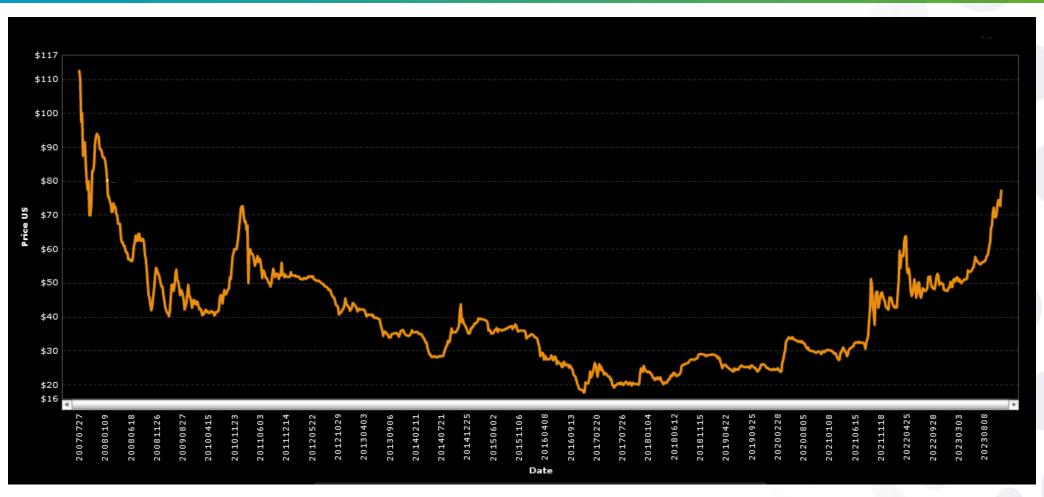
Why US Uranium?

Why Aurora?

Spot uranium price at 15 year high



Year-to-date spot price is up over 67%, contracting volumes at decade high



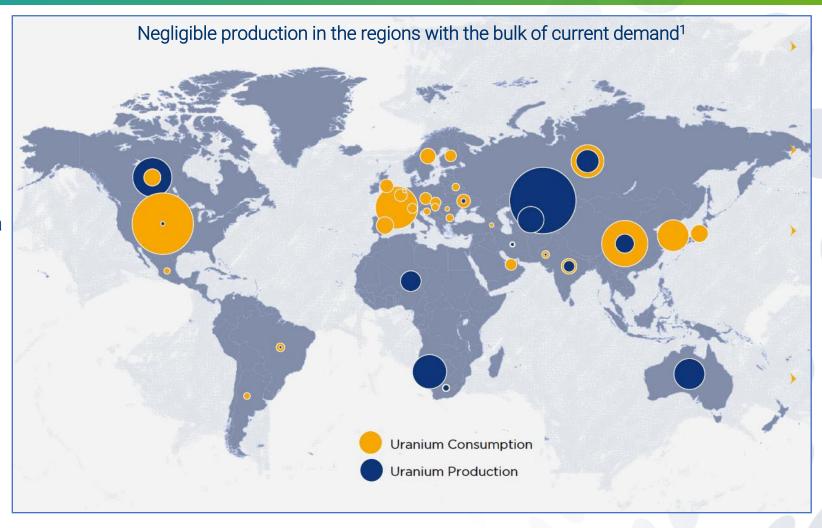
UxC projects a 66 Mlb deficit for 2023, a 34% shortfall compared to forecast demand of 195 Mlbs

Geopolitical tensions



Globally, a bifurcated market has brought energy security to the fore

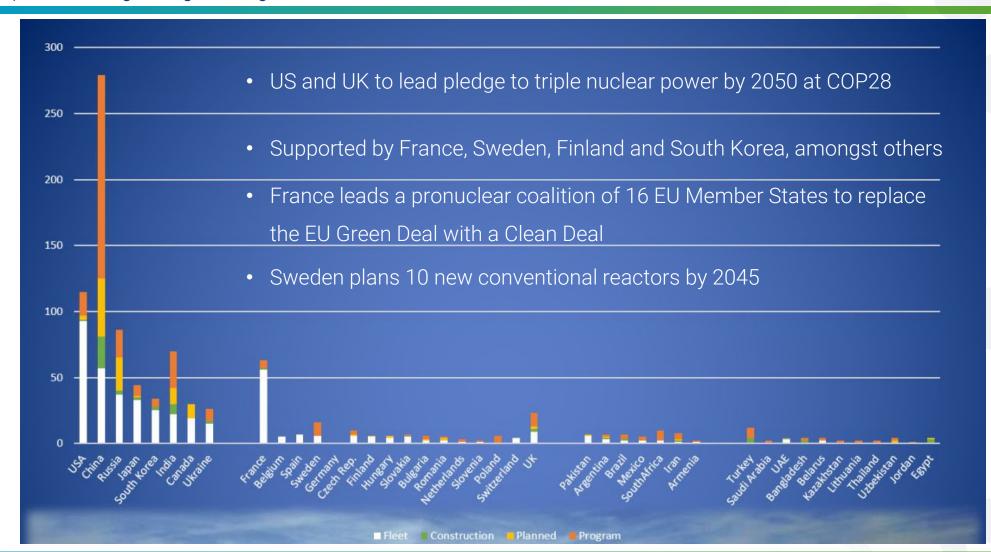
- Market imbalance between location of demand & supply.
- Exacerbated by Russia's invasion of Ukraine.
- Demand building in the east China will be largest consumer within a decade.
- Security of uranium supply will be critical to future nuclear energy growth & development.
- US & EC will remain key markets.



Towards Net Zero



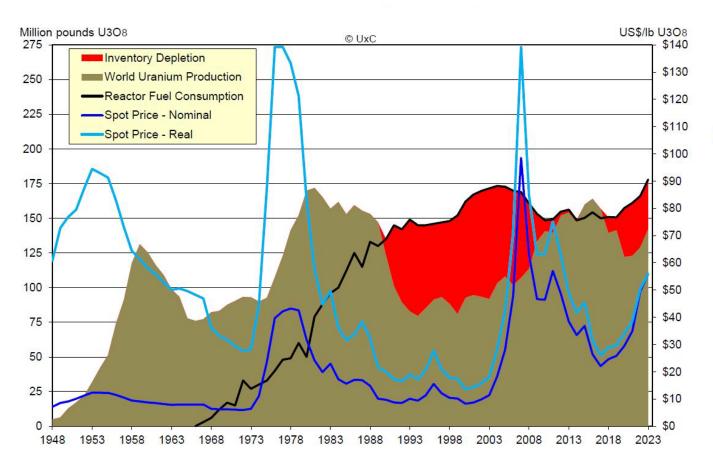
Nuclear power resurgence gathering momentum



Inventory Depletion



The inventory overhang is now depleted, and production shortfalls are the future's reality



AURORAENERGYMETALS.COM

Since 1990, net inventory depletion estimated at 1.357 billion lbs U₃O₈e



Overview



• Why uranium?

Why US Uranium?

Why Aurora?

Why US domestic uranium is so important?



The world's largest uranium consumer imports almost all its requirements¹

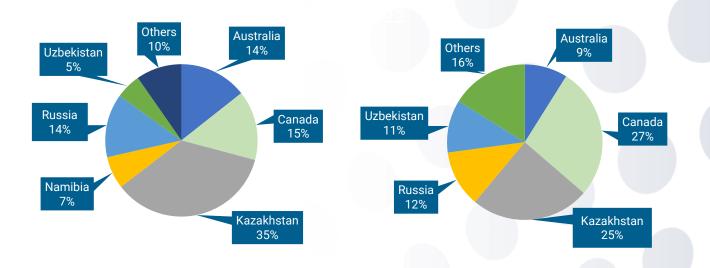
- World's largest nuclear power fleet hence the world's largest uranium consumer.
- Well established nuclear power sector with no infrastructure restrictions.
- Domestic supply is a priority supported by the US\$368B Inflation Reduction Act.
- Uranium mining and processing is well understood from a regulatory perspective.

"doubling nuclear capacity is well within what might be required for our net-zero transition.... it's a lot of reactors in the 2030's that we're going to have to build, particularly if we want to help with our 2035 goal of 100 percent clean electricity."

- Kathryn Huff, Assistant Secretary, DOE Office of Nuclear Energy, Nov 5, 2022

McKinsey Consultants modelling predicts that the global energy transition could require an additional 400 to 800 GW of new nuclear.

Where does the USA get its uranium?

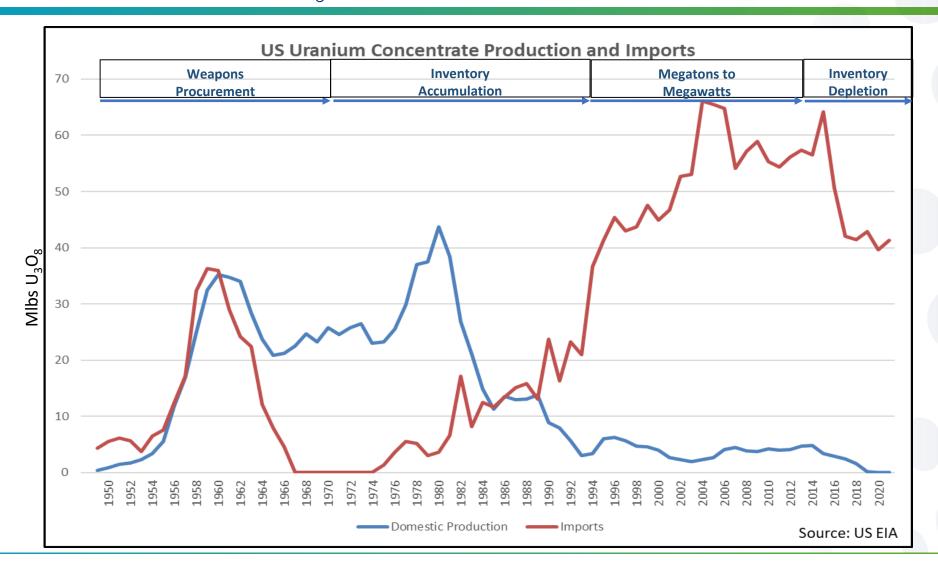


Negligible domestic production for years...

US Uranium Boom & Bust



Supply is almost nonexistent in the world's largest consumer of uranium



And why there's a resurgent US Uranium Mining Sector



Aggressive plans to re-establish a reliable, domestic nuclear fuel supply chain¹

Civil Nuclear Credit Program

Financial support for nuclear power plants at risk of premature closure, for example California's Diablo Canyon

Strategic Uranium Reserves

- US\$700m fund established by US Congress for Enriched Uranium
- Department of Energy established a US\$15m
 Strategic Uranium Reserve

Bi-Partisan Support

- Inflation Reduction Act US\$368Bn
- Infrastructure Law US\$6Bn Nuclear Credit Program

The US retains its global leadership of the nuclear energy sector:

- The largest nuclear power fleet in the world.
- Nuclear generates 50% of its low carbon/emissions free electricity.
- Nuclear has bipartisan support.
- Nuclear has highest ever level of public support.
- Urgent need to revitalise the US nuclear supply chain.

Overview



• Why uranium?

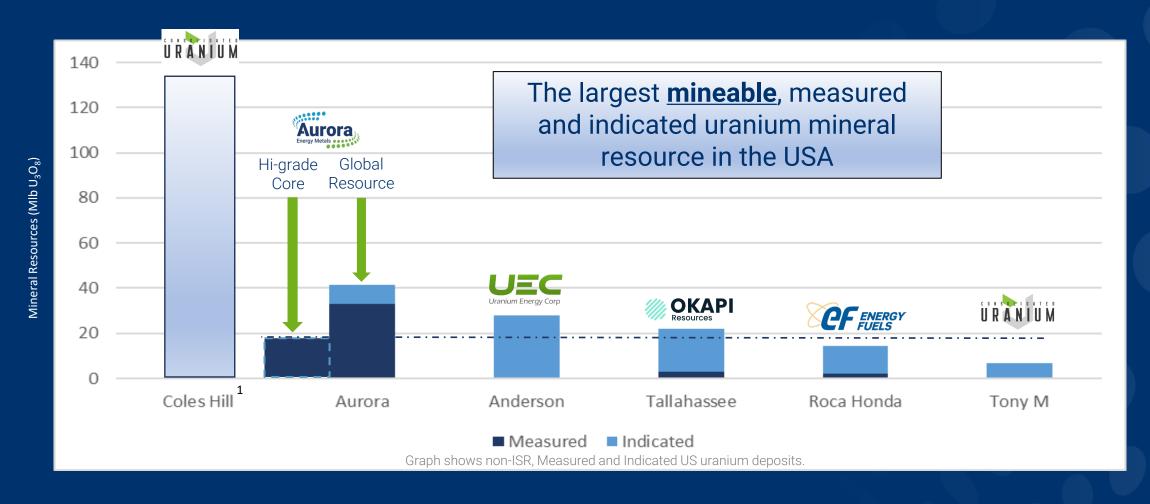
Why US Uranium?

• Why Aurora?

One of the largest US Uranium Deposits



107.3 Mt @ 214 ppm U_3O_8 for 50.6 Mlb U_3O_8 – focussed on the shallow high-grade core: 18Mt @ 485 ppm U_3O_8 for 19.2 Mlb U_3O_8



Note: 1. Coles Hill is in Virginia, which imposed a moratorium on uranium mining in 1982. This ban was upheld by the Supreme Court of Virginia in September 2021.

Key Points

Aurora Energy Metals

Why invest?

Resource Quality

Large, well-defined deposit

Great Infrastructure

- Direct access to hydroelectricity
- Sealed and unsealed roads

Clear pathway to development

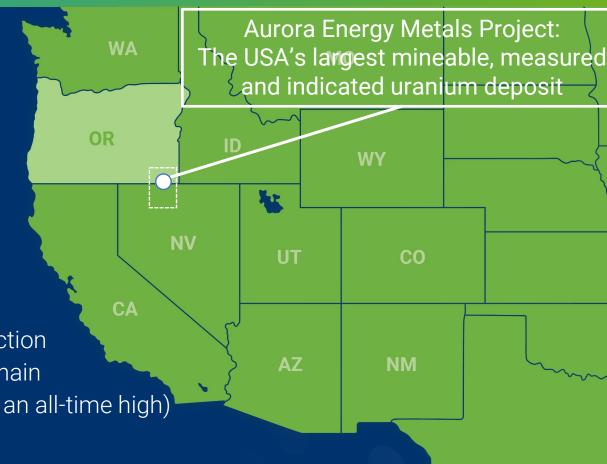
• Mine in Oregon, plant on private land in Nevada

Attractive Jurisdiction

- World's largest uranium consumer, negligible production
- Strong desire to re-build domestic uranium supply chain
- Bi-partisan & public support for nuclear in the US (at an all-time high)
- Well understood permitting regime

Compelling Valuation

• Undervalued relative to peers

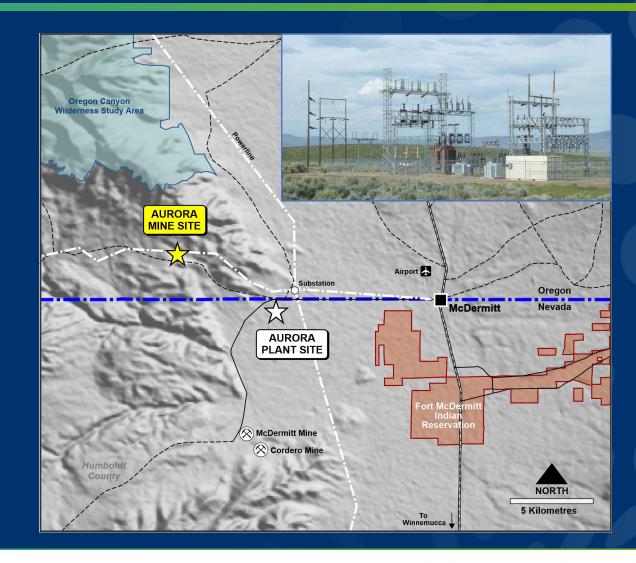


Aurora Uranium Project

Aurora Energy Metals

The Project has inherent competitive advantages

- Historical mining district excellent infrastructure.
- 1970's discovery, extensively drilled.
- Large, well-defined resource (50.6 Mlb $U_3O_8^1$).
- Focused on shallow, high-grade core:
 - 18Mt @ 485 ppm U₃O₈ for 19.2 Mlb U₃O₈¹.
- Beneficiation will reduce power and reagent consumption.
- Take advantage of the Project's shallow, free dig overburden.



Established, Clear Pathway to Development



AURORA PLANT SITE

Use existing infrastructure, roads and most importantly, available hydroelectricity supply

- Mine in Oregon → Process plant in Nevada, on private land.
- Excellent infrastructure for Plant:
 - Existing sealed road from McDermitt.
 - Use available hydroelectricity supply.
 - Town of McDermitt nearby.
 - McDermitt on US Highway Route 95.
- Hydroelectricity means low carbon footprint.
- Stockpile lithium in overburden for future processing.



Oregon (Malheur County)

Nevada (Humboldt County)

2 Km

Claim Outline

Proposed Plant Location

Corporate Snapshot



Advancing the USA's largest measured uranium deposit

Capital Structure (on an undiluted basis, as at 21 November 2023)

1AE
ASX Code

179m

Shares on Issue (inc. 19.9m escrowed)

A\$14M

Market Cap (at A\$0.078 per share)

30m

Options (21.2m @ \$0.15, 6m @ \$0.20, 2.85m @ \$0.30)

~A\$3MCash (as at 30 Sept 2023)

~A\$11m Enterprise Value













Concluding Remarks









Reasons to invest in Aurora Energy Metals

US Jurisdiction:
The world's largest
uranium consumer,
trying to revitalise
domestic production

Asset Quality:
Largest mineable
M&I uranium
resource in the USA

Infrastructure:
Will enable accelerated
development, with
reliable, clean energy
supply

Attractive valuation:
Significant upside
given current
discount to peers

Underpinned by a global, resurgent nuclear energy sector that is <u>fundamental</u> to the future success of the world's decarbonisation efforts.

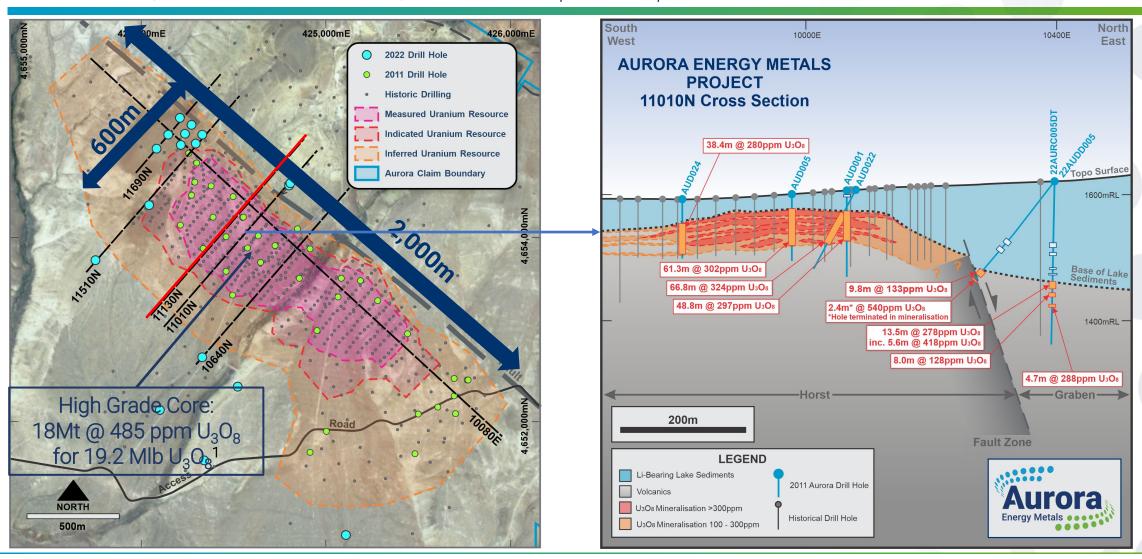


Appendices

Well Defined Mineral Resource



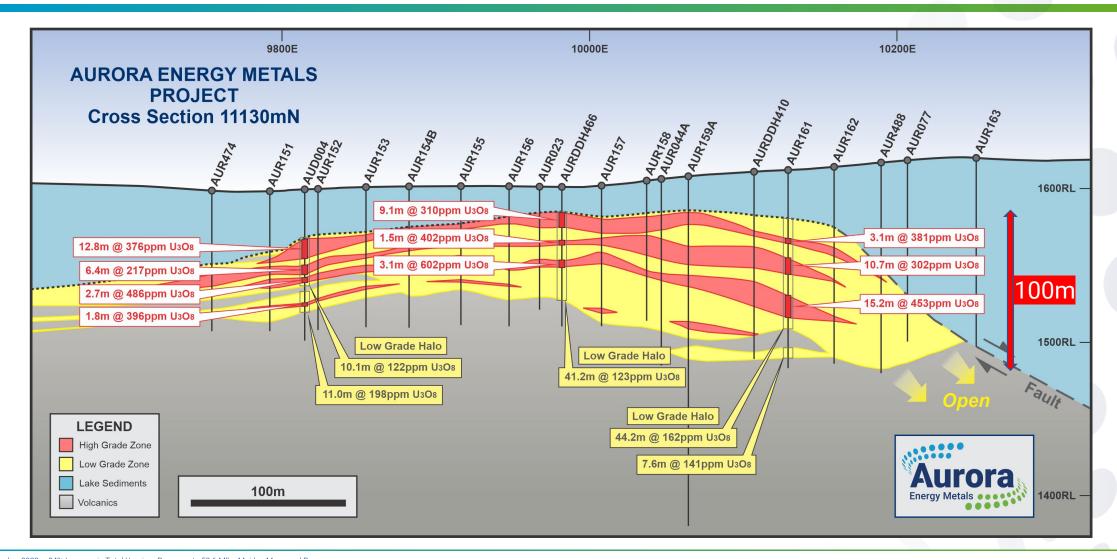
Well understood, with over 600 holes drilled, but still some exploration upside¹



Low Geological Risk



Global resource ~82% Measured and Indicated, High grade core ~99.5% Measured and Indicated¹



Uranium Resource Summary¹



	Measured			Indicated			Inferred			Total		
Resource Zone	Mt	U ₃ O ₈	Mlb U ₃ O ₈	Mt	U₃O ₈ ppm	Mlb U ₃ O ₈	Mt	U ₃ O ₈	Mlb U ₃ O ₈	Mt	U ₃ O ₈	Mlb U₃O ₈
High Grade Zone ¹	16.3	487	17.5	1.6	467	1.6	0.1	425	0.1	18.0	485	19.2
Low Grade Zone ²	43.2	162	15.4	19.8	161	7.0	26.3	155	9.0	89.3	160	31.5
Total	59.5	251	32.9	21.4	184	8.7	26.4	157	9.1	107.3	214	50.6

- 1. High grade zone estimated using a 300 ppm U₃O₈ cut-off
- 2. Low grade zone estimated using a 100 ppm U₃O₈ cut-off
- 3. Appropriate rounding applied

JORC Disclaimer:

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Information in this announcement relating to Mineral Resources is extracted from the Announcement released by the ASX on 23 November 2022. Aurora Energy Metals Limited confirms that it is not aware of any new information or data that materially affects the information included in this announcement and that all material assumptions and technical parameters underpinning the Mineral Resource continue to apply and have not materially changed. Aurora Energy Metals Limited confirms that the form and context in which the Competent Persons' findings are presented in this announcement have not been materially modified from the original market announcement.



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