



ABN 63 111 306 533

## QUARTERLY REPORT TO SHAREHOLDERS

for the three months ended  
31 December 2024

### ASX Code - EME

For further information,  
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This report and further  
information are available on  
Energy Metals' website at:

**[www.energymetals.net](http://www.energymetals.net)**



## HIGHLIGHTS

### Bigirlyi JV Project (NT)

- Excellent assay results received
- 3D modelling updated
- Revised MRE commenced
- Planning of 2025 Exploration Program is underway

### Ngalia Regional Project (NT)

- Reconnaissance drilling completed at Walbiri South
- Continuation of prospective target unit confirmed
- Further work likely in 2025

## FINANCIAL

Energy Metals had approximately \$9.97M in cash and 209.7M shares on issue at 31 December 2024.

A handwritten signature in black ink, appearing to read 'Shubiao TAO'.

**Shubiao TAO**  
**Managing Director**  
**28 January 2025**

## INTRODUCTION

Energy Metals (EME) is a dedicated uranium company with eight exploration projects located in the Northern Territory (NT) and Western Australia covering around 2,400 km<sup>2</sup> (Figure 1). Most of the projects contain uranium and associated vanadium mineralisation discovered by major companies in the 1970s, including the advanced Bigrlyi Project (NT).

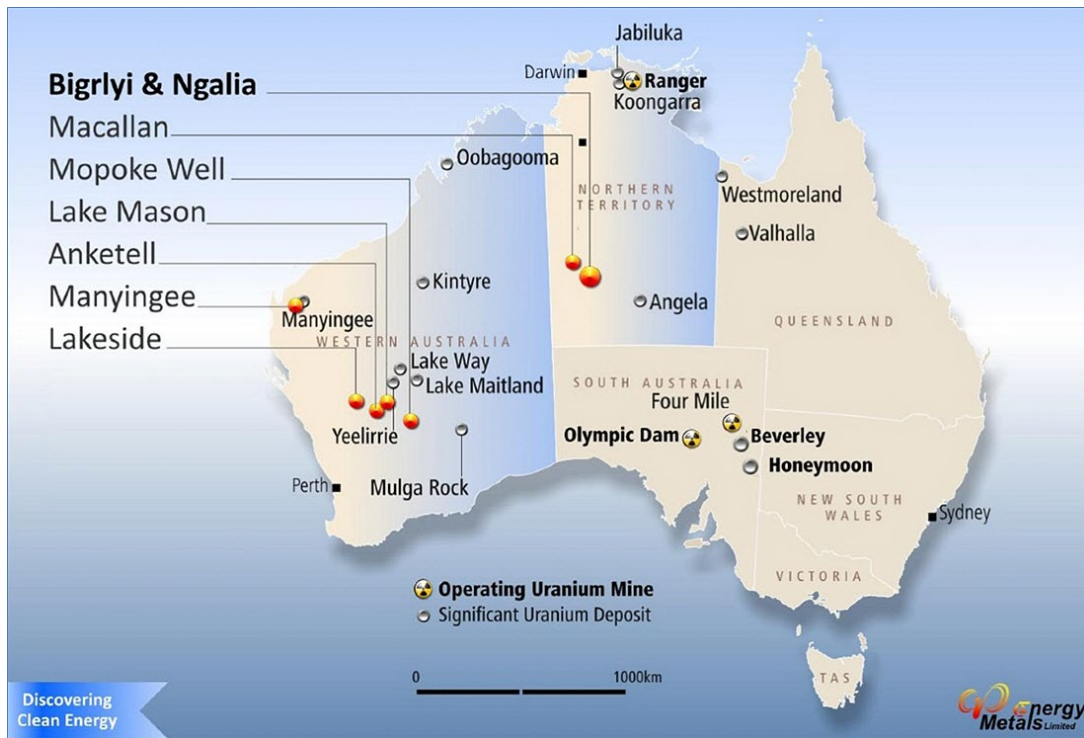


Figure 1 – Location of Energy Metals Projects

Energy Metals is well placed to take advantage of the favourable outlook for uranium as nuclear power continues to play an increasing role in reducing global carbon emissions.

China Uranium Development Company Limited, Energy Metals' largest shareholder (with 66.45% of issued capital), is a wholly owned subsidiary of CGN, a leading company in clean energy and nuclear power technologies in China and world-wide. At 31 December 2024, the installed capacity of CGN's operating nuclear generating plants was 31,750MWe from 28 nuclear power units with 16 other power units of 19,412MWe capacity under construction in various locations across China. CGN is one of only three companies authorised by the Chinese Government to import and export uranium. This unique relationship with CGN gives Energy Metals direct exposure to the uranium market as well as access to significant capital and places the Company in a very strong position going forward.

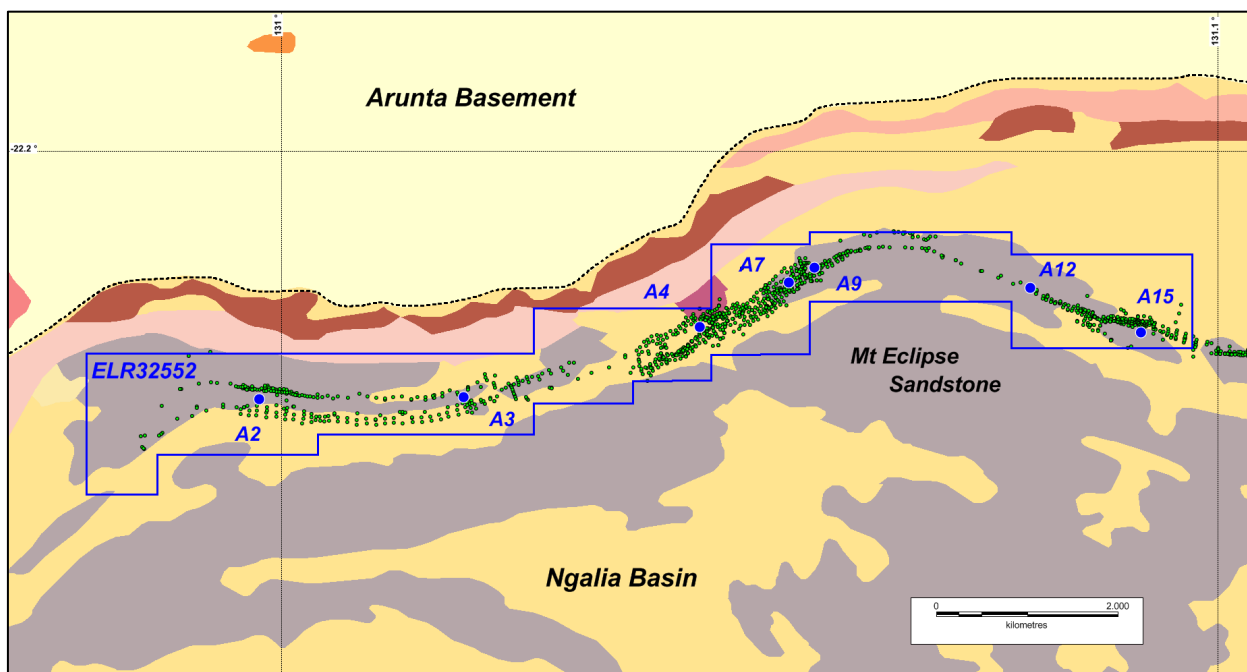
**Market Update.** The uranium spot price began the quarter at \$US 82/lb, steadily dropping to a low of \$US 73/lb in late December. The long-term price has stabilised just above \$US 80/lb during the quarter. Prices have dropped off since the highs seen 12 months ago, but are still considered strong compared to recent years. Most commentators are forecasting a rally for uranium prices in 2025 with an expected range of \$US 90-100 considered likely. More than 20 countries have announced plans to increase their nuclear power capacity in the light of ambitious plans to decarbonise their economies. In the vanadium market prices increased slightly, rising from \$US 4.60/lb V<sub>2</sub>O<sub>5</sub> at the start of the quarter to \$US 4.80/lb V<sub>2</sub>O<sub>5</sub> at the close.

## **NORTHERN TERRITORY**

### **Bigrlyi Joint Venture (EME 72.39%)**

The Bigrlyi Joint Venture comprises two granted exploration licences in retention (ELRs), one granted EL, and several applications within the Ngalia Basin, located approximately 350km northwest of Alice Springs. Energy Metals operates the Joint Venture in partnership with Northern Territory Uranium Pty Ltd (NTU; a wholly owned subsidiary of Elevate Uranium Ltd, EL8), and with Noble Investments Pty Ltd (NIL), a private investment company that holds a 6.79% interest.

The Bigrlyi Joint Venture (BJV) has been the subject of significant exploration activity since 1973, including over 1,040 drill-holes, metallurgical test-work and mining studies focussed on the flagship Bigrlyi deposit, which comprises a number of sub-deposits over a 11km strike length on ELR32552 (Figure 2). The Bigrlyi project is characterised by relatively high uranium grades, vanadium credits and excellent metallurgical recoveries. Further information is available in ASX announcements or from Energy Metals' website: [www.energymetals.net](http://www.energymetals.net).



**Figure 2 – Bigrlyi Joint Venture project area showing simplified geology (grey = Mt Eclipse Sandstone) with the outline of amalgamated ELR 32552 shown in blue; Anomaly-2 to Anomaly-15 (A2 to A15) sub-deposit locations (blue dots) and exploration drill-hole collars (green dots) are shown.**

The historical Karins uranium deposit (Figure 3) is part of the Bigrlyi Joint Venture, with a JORC-compliant resource estimate released to the ASX in 2015. In 2015 a maiden JORC (2012) resource estimate was announced for the historic Sundberg deposit, which is part of the Bigrlyi Joint Venture, and a satellite of the larger Walbiri deposit (Figure 3).

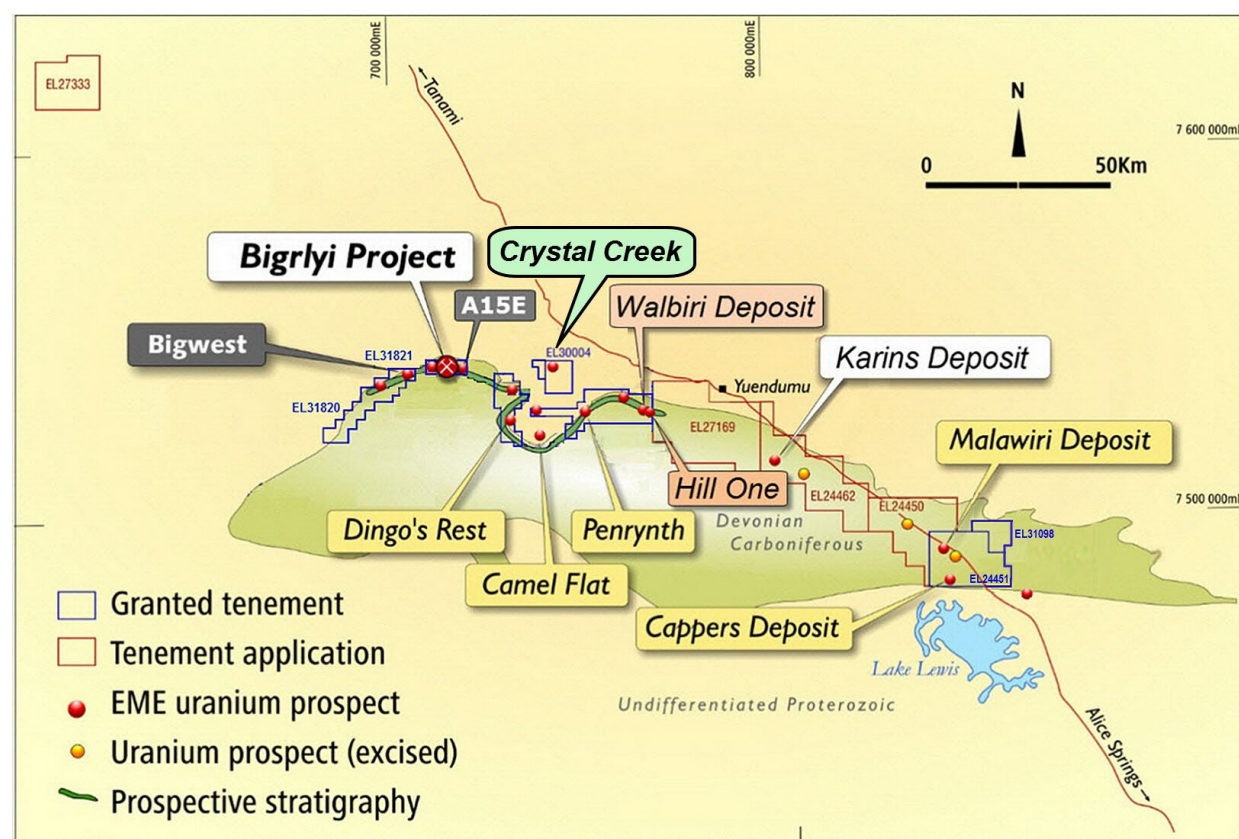
### **Walbiri Joint Venture (EME 77.12%)**

ELR45 covers part of the historical Walbiri deposit and part of the Hill One satellite deposit (Figure 3). The project is a joint venture with NTU, with EME as the operator. Energy Metals holds a 77.12% beneficial interest in the JV. A JORC (2012) mineral resource estimate was announced

for the Walbiri deposit in 2015 confirming Walbiri as the second largest sandstone-hosted deposit in the Ngalia Basin after Bigrlyi.

### **Malawiri Joint Venture (EME 76.03%)**

ELR41 covers the historical Malawiri deposit. The project is a joint venture with NTU, with Energy Metals as the operator. Energy Metals holds a 76.03% beneficial interest in the JV and NTU holds a 23.97% interest. The Company advanced the Malawiri project to JORC-compliant resource status with release of a mineral resource estimate on 14 December 2017.



**Figure 3 – Uranium deposits, occurrences and exploration target areas in the Ngalia Basin. Location of the Crystal Creek REE prospect shown.**

### **JV Activities (December 2024 Quarter)**

During the quarter, exploration work continued on the Bigrlyi JV with chemical assay results being received from the recent drilling program. The assay results correlated well with previously announced  $eU_3O_8$  results derived from downhole gamma logging, affording the company full confidence in the drilling results. The chemical assay results were released to the market on December 12<sup>th</sup> “Chemical Assays Confirm Bigrlyi Drilling Results”. With the dataset complete, the relevant mineralisation wireframes and geological models were updated, allowing the company to commence a revised Mineral Resource Estimate (MRE) which is currently underway.

The company has also commenced work on various mining studies to better understand the future mining potential of the Bigrlyi deposit, combined with detailed planning of the 2025 field exploration program.

No work was carried out on the Walbiri or Malawiri JV tenure during the quarter.

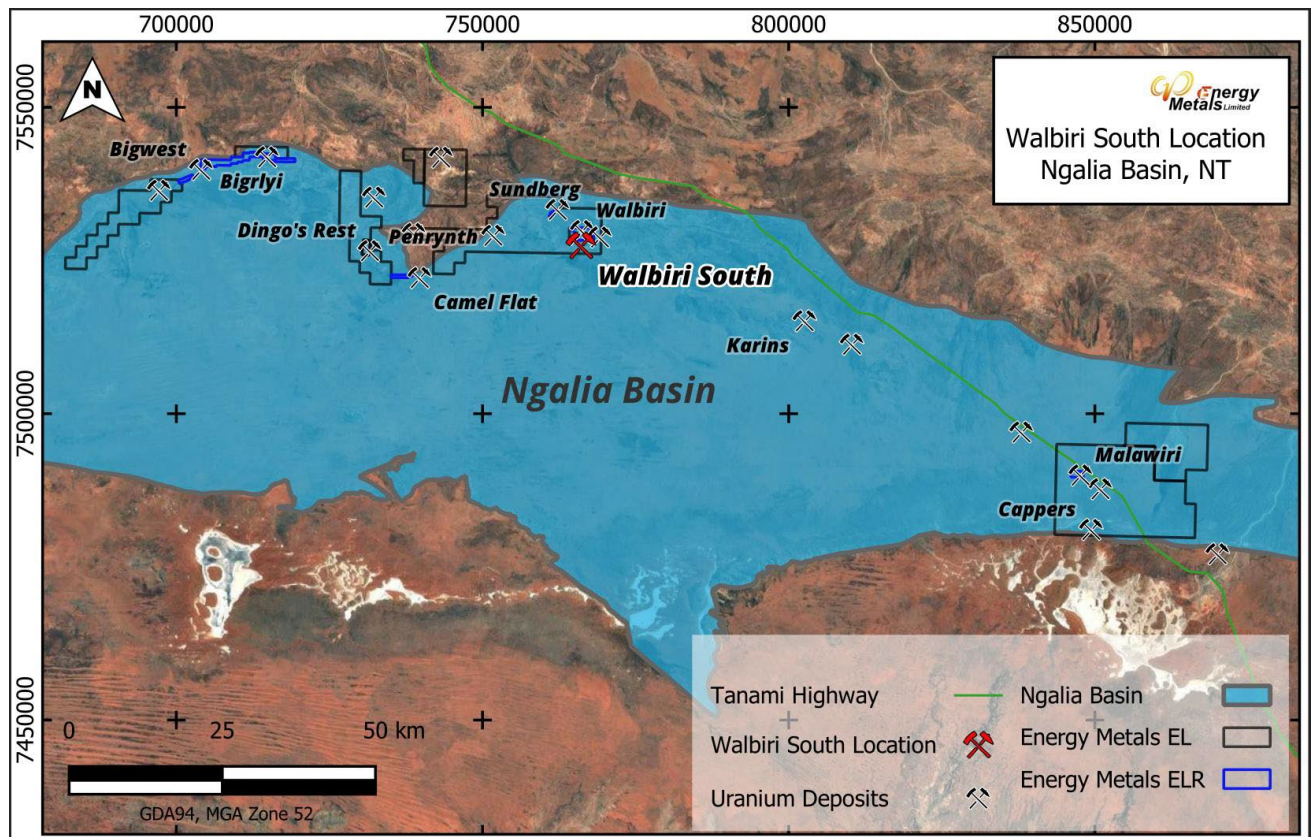


### Ngalia Regional Project (EME 100%)

The Ngalia Regional Project comprises thirteen 100% owned exploration licences, applications and exploration licences in retention located in the Ngalia Basin, between 180km and 350km northwest of Alice Springs (Figure 3). The tenements are contiguous and enclose the Bigrlyi project as well as containing a number of uranium occurrences, including part of the historic Walbiri deposit and the Cappers calccrete-hosted deposit. In addition, the rare earth element (REE) potential of the Crystal Creek prospect on EL30004, which comprises clay-rich regolith materials developed on granite, are under investigation.

During the quarter, the company carried out a small program of RC drilling at its wholly owned Walbiri South prospect. Walbiri South is located 50km ESE of the Bigrlyi uranium deposit and 2km south of the Walbiri uranium deposit. The target is a conceptual uranium prospect derived from a combination of geological and geophysical interpretation. The Company carried out a small program of RC drilling designed to test the interpretation and determine if Walbiri South has potential to host a uranium deposit.

**Figure 4: Location Map showing Walbiri South and other selected uranium deposits within the Ngalia Basin.**



Six RC drillholes were completed at Walbiri South in November 2024. The drillholes had an average depth of 190m, maximum depth of 300m, and the total metreage drilled was 1140m. All holes were drilled at -60° towards the south. Collar details are given in Table 1 below and locations shown on the collar plan in Figure 5.

All samples were logged to determine their geology, stratigraphy, and the presence of any vectors toward uranium mineralisation. Samples were tested for radioactivity by use of a handheld personal radiation detector. Two of the six drillholes were logged downhole with a



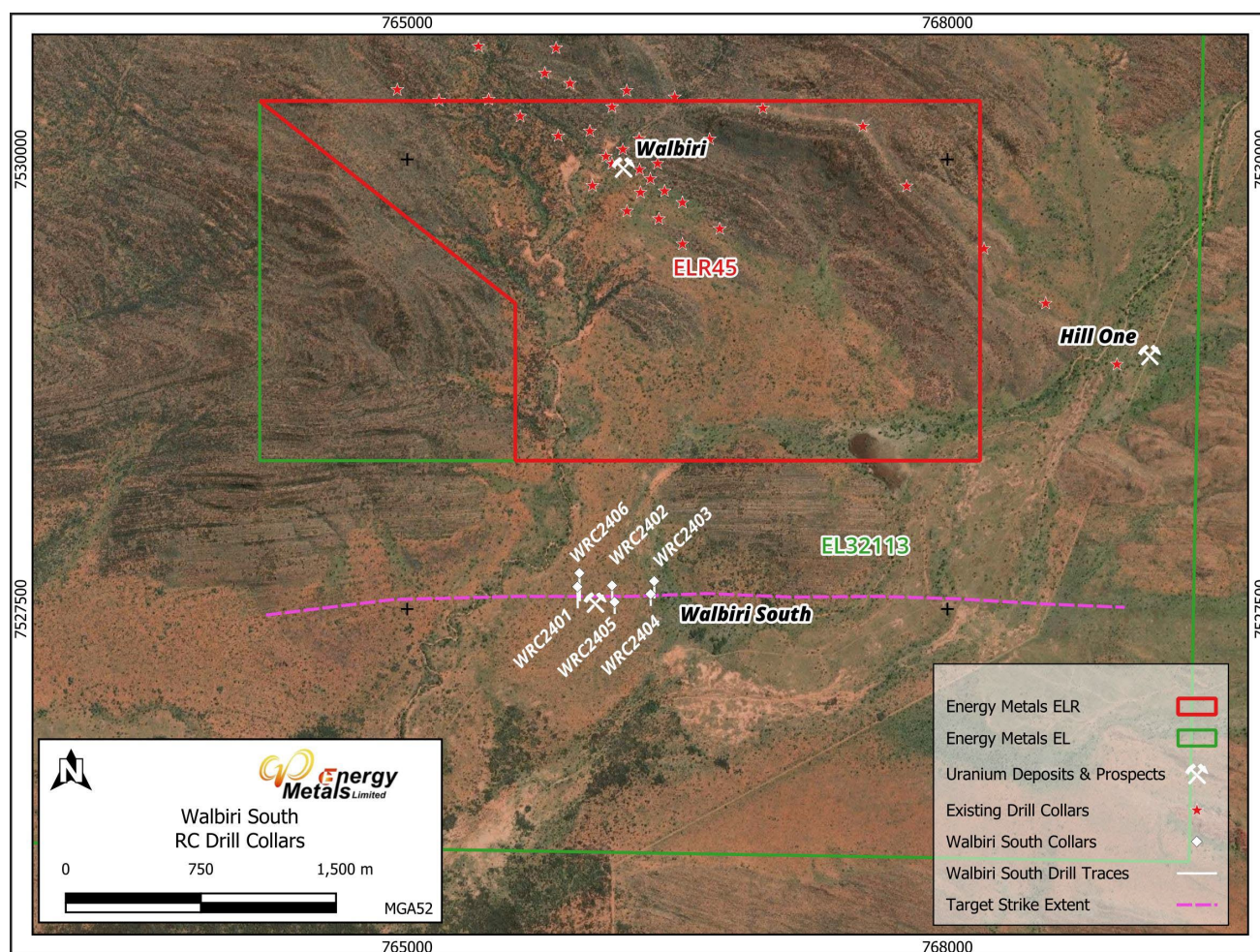
gamma probe. Selected samples were chosen for chemical assay based on elevated radioactivity and geological factors. No economic intersections of uranium mineralisation were encountered during the drilling campaign, however encouraging signs were noted in terms of both observed geology and geochemistry. Several samples returned anomalous uranium levels up to 5 times above background, and these correlated with increased levels of vanadium, sulphur, and total organic carbon which provides encouragement that conditions are permissive for the formation of a uranium deposit at Walbiri South.

**Table 1: Drill Collar Details**

HOLE ID	HOLE TYPE	EASTING	NORTHING	RL	DIP	AZIMUTH	DEPTH (m)
WRC2401	RC EXP	765945	7527624	651	-60	179	228
WRC2402	RC EXP	766137	7527631	651	-60	179	192
WRC2403	RC EXP	766371	7527655	650	-60	179	180
WRC2404	RC EXP	766351	7527583	650	-60	179	120
WRC2405	RC EXP	766151	7527539	651	-60	179	120
WRC2406	RC EXP	765956	7527700	651	-60	179	300

All coordinates in GDA94, MGA Zone 52.

**Figure 5: Collar Plan Map for Walbiri South**



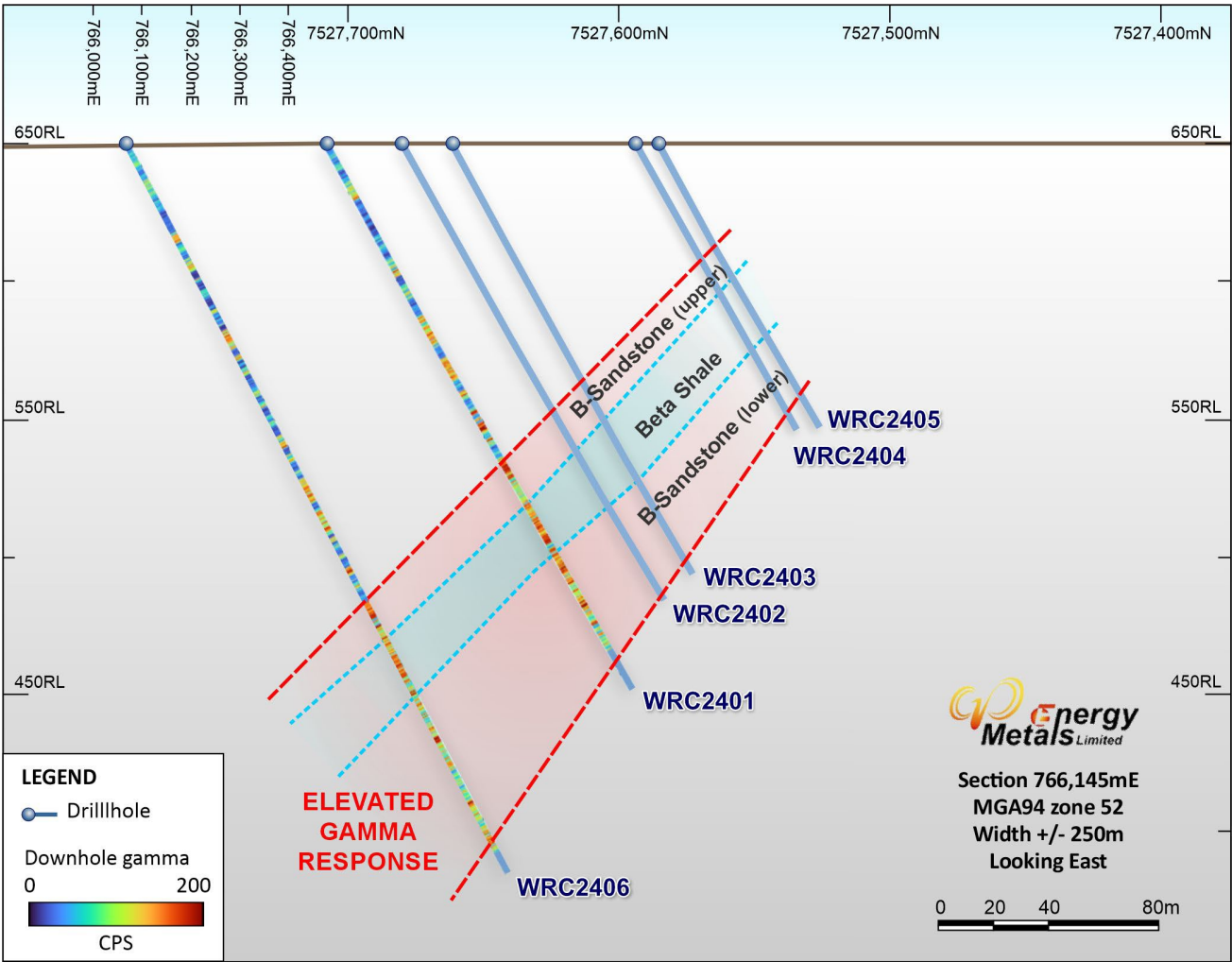
Mineralisation at Walbiri is found in an approximately 50m wide window of reduced sandstone known as the B-Sandstone, which forms an envelope around a stratigraphic marker unit known as the Beta Shale. The B-Sandstone and Beta Shale were identified in all six drillholes at Walbiri

South. Low tenor but observable increases in gamma radioactivity were noted in the B-Sandstone in both holes which were gamma logged (see cross-section Figure 6 for details).

Identifying and locating these prospective rock units at Walbiri South is considered a successful outcome for the drilling program. The Company has used a combination of geology, geophysics, and drilling to demonstrate that the B-Sandstone is present over a strike extent of 400m in the centre of the prospect. This proves the targeting is effective and opens the door for further drilling to test the full strike extent, which is estimated to be around 5km in length.

Future work at Walbiri South is likely to involve broad-spaced lines of reconnaissance drilling to test the full strike extent, after which the focus will switch to identifying areas with anomalous uranium and searching for an economic deposit.

Figure 6: Cross-sectional interpretation of Walbiri South RC Drilling



### **Macallan (EME 100%)**

The Macallan project comprises a single exploration licence application (ELA27333), located 460 km NW of Alice Springs and 140 km from Bigirlyi. The tenement covers a strong 3km-wide bullseye radiometric anomaly. The Macallan anomaly lies within the Wildcat Palaeovalley, an ancient valley system that drains into Lake Mackay to the southwest. The Macallan anomaly most likely represents a surficial accumulation of uranium minerals associated with the Wildcat palaeodrainage system, although other explanations are possible.

ELA27333 lies on land under Aboriginal Freehold title and access is subject to negotiation with the Traditional Owners and the CLC. The negotiation period has been extended until October 2025 and the CLC are currently preparing an exploration agreement.

### **WESTERN AUSTRALIA**

#### **Manyingee (EME 100%)**

The Manyingee project comprises retention licence application R08/3, underlying tenement E08/1480 and two exploration licence applications, which are located 85 km south of Onslow. The project is located adjacent to mining leases containing Paladin Energy's Manyingee resource, a stacked series of buried, palaeochannel-hosted, roll-front uranium deposits. In November 2016 Energy Metals announced an initial JORC (2012) Mineral Resource Estimate for the Manyingee East uranium deposit, which is located up-channel of Paladin's Manyingee deposit.

Law firm Gilbert+Tobin was appointed in 2019 to assist Energy Metals with landholder objections to grant of the Manyingee title applications. The objections are still progressing through the Wardens Court procedure, with hearings expected to take place in 2025.

#### **Other Deposits - Mopoke Well, Lakeside, Anketell, Lake Mason (all EME 100%)**

These four projects are surficial uranium deposits associated with calcrete or calcretised sediments related to ancient drainage and/or lacustrine systems. All projects are located on granted retention licences and mineral resource estimates under the JORC 2004 or 2012 codes have previously been announced for each deposit. All deposits are affected by the WA Government's current ban on uranium mining, and under present uranium market conditions the deposits are not economic. Energy Metals will continue to monitor the market and political situation with a view to re-starting exploration and development activities should positive conditions return.



## **CORPORATE**

Energy Metals remains in a strong financial position with approximately \$9.97 million in cash and bank deposits at the end of the quarter, forming a solid resource for ongoing exploration and project development.

During the quarter, Energy Metals paid \$60,000 in total to related parties and their associates. The payments included director's salaries, non-executive directors' fee, and consulting fees.

**Table 2: Tenement Information as required by listing rule 5.3.3**

TENEMENT*	PROJECT	LOCATION	INTEREST	CHANGE IN QUARTER
<b>Northern Territory</b>				
EL24451	Ngalia Regional	Napperby	100%	-
EL31098	Ngalia Regional	Napperby	100%	-
EL31820	Ngalia Regional	Mt Doreen	100%	-
EL31821	Ngalia Regional	Mt Doreen	100%	-
EL32113	Ngalia Regional	Mt Doreen	100%	-
ELR31754	Ngalia Regional	Mt Doreen	100%	-
ELR31755	Ngalia Regional	Mt Doreen	100%	-
ELR31756	Ngalia Regional	Mt Doreen	100%	-
ELR32552	Bigirlyi Joint Venture	Mt Doreen	72.39%	-
ELR41	Malawiri Joint Venture	Napperby	76.03%	-
ELR45	Walbiri Joint Venture	Mt Doreen	77.12%	-
EL30004	Ngalia Regional	Mt Doreen	100%	-
ELA27169	Ngalia Regional	Yuendumu	100%	-
ELA33116	Ngalia Regional	Yuendumu	100%	-
EL30144	Bigirlyi Joint Venture	Mt Doreen	72.39%	-
ELR31319	Bigirlyi Joint Venture	Mt Doreen	72.39%	-
ELA24462	Ngalia Regional	Yuendumu	100%	-
ELA24450	Ngalia Regional	Yuendumu	100%	-
ELA27333	Macallan	Tanami	100%	-
MLNA1952	Bigirlyi Joint Venture	Yuendumu	72.39%	-
<b>Western Australia</b>				
E08/1480	Manyingee	Yanrey	100%	-
E08/2856	Manyingee	Yanrey	100%	-
E08/3647	Manyingee	Yanrey	100%	-
R08/3	Manyingee	Yanrey	100%	-
R21/1	Lakeside	Cue	100%	-
R29/1	Mopoke Well	Leonora	100%	-
R57/2	Lake Mason	Sandstone	100%	-
R58/2	Anketell	Sandstone	100%	-

\* EL = Exploration Licence (NT); ELA = Exploration Licence Application (NT); ELR = Exploration Licence in Retention (NT); MLNA = Mineral Lease (Northern) Application (NT); E = Exploration Licence (WA); R = Retention Licence (WA).

### **Competent Persons Statement**

*The information in this report that relates to Mineral Exploration is based on information compiled by Mr David Nelson, a Competent Person who is a Member of The Australian Institute of Geoscientists ("AIG") (Member #4172). Mr Nelson is a full-time employee of Energy Metals Ltd where he holds the position of Exploration Manager. Mr Nelson has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration, and to the activity being undertaken 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 – The JORC Code (2012)'. Mr Nelson consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.*

*The information discussed in this report relating to mineralisation modelling, exploration targets and metallurgical test-work results is based on information compiled by Dr Wayne Taylor. Dr Taylor is a member of the Australian Institute of Geoscientists (MAIG). He has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which they are undertaking to qualify as Competent Persons as defined in the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves – The JORC Code (2012)". Dr Taylor consents to the inclusion of the information in the report in the form and context in which it appears.*

*This report references mineral resource estimates and/or related information that were prepared and first disclosed under the JORC Code 2004. These have not been updated to JORC Code 2012 standards on the basis that the information has not materially changed since it was last reported.*

## Appendix 5B

### Mining exploration entity or oil and gas exploration entity quarterly cash flow report

Name of entity

Energy Metals Limited

ABN

63 111 306 533

Quarter ended ("current quarter")

31 December 2024

Consolidated statement of cash flows		Current quarter \$A'000	Year to date (12 months) \$A'000
<b>1.</b>	<b>Cash flows from operating activities</b>		
1.1	Receipts from customers		
1.2	Payments for		
	(a) exploration & evaluation	(20)	(200)
	(b) development	-	-
	(c) production	-	-
	(d) staff costs	(96)	(398)
	(e) administration and corporate costs	(101)	(769)
1.3	Dividends received (see note 3)	-	-
1.4	Interest received	178	658
1.5	Interest and other costs of finance paid	(1)	(4)
1.6	Income taxes paid	-	-
1.7	Government grants and tax incentives	-	-
1.8	Other (GST refund and management fee received from JV)	604	764
<b>1.9</b>	<b>Net cash from / (used in) operating activities</b>	<b>564</b>	<b>51</b>

<b>2.</b>	<b>Cash flows from investing activities</b>		
2.1	Payments to acquire or for:		
	(a) entities	-	-
	(b) tenements	-	-
	(c) property, plant and equipment	-	(92)
	(d) exploration & evaluation	(266)	(3,116)
	(e) investments – term deposit held by the joint venture	-	(434)
	(f) other non-current assets	-	-



<b>Consolidated statement of cash flows</b>		<b>Current quarter \$A'000</b>	<b>Year to date (12 months) \$A'000</b>
2.2	Proceeds from the disposal of:		
	(a) entities	-	-
	(b) tenements	-	-
	(c) property, plant and equipment	-	-
	(d) investments	-	434
	(e) other non-current assets	-	-
2.3	Cash flows from loans to other entities	-	-
2.4	Dividends received (see note 3)	-	-
2.5	Other (provide details if material)	-	-
<b>2.6</b>	<b>Net cash from / (used in) investing activities</b>	<b>(266)</b>	<b>(3,208)</b>

<b>3.</b>	<b>Cash flows from financing activities</b>		
3.1	Proceeds from issues of equity securities (excluding convertible debt securities)	-	-
3.2	Proceeds from issue of convertible debt securities	-	-
3.3	Proceeds from exercise of options	-	-
3.4	Transaction costs related to issues of equity securities or convertible debt securities	-	-
3.5	Proceeds from borrowings	-	-
3.6	Repayment of borrowings	(15)	(58)
3.7	Transaction costs related to loans and borrowings	-	-
3.8	Dividends paid	-	-
3.9	Other (provide details if material)	-	-
<b>3.10</b>	<b>Net cash from / (used in) financing activities</b>	<b>(15)</b>	<b>(58)</b>

<b>4.</b>	<b>Net increase / (decrease) in cash and cash equivalents for the period</b>		
4.1	Cash and cash equivalents at beginning of period	9,689	13,187
4.2	Net cash from / (used in) operating activities (item 1.9 above)	564	51
4.3	Net cash from / (used in) investing activities (item 2.6 above)	(266)	(3,208)
4.4	Net cash from / (used in) financing activities (item 3.10 above)	(15)	(58)

<b>Consolidated statement of cash flows</b>		<b>Current quarter \$A'000</b>	<b>Year to date (12 months) \$A'000</b>
4.5	Effect of movement in exchange rates on cash held	-	-
4.6	<b>Cash and cash equivalents at end of period</b>	<b>9,972</b>	<b>9,972</b>

<b>5. Reconciliation of cash and cash equivalents</b> at the end of the quarter (as shown in the consolidated statement of cash flows) to the related items in the accounts	<b>Current quarter \$A'000</b>	<b>Previous quarter \$A'000</b>
5.1 Bank balances	1,147	1,072
5.2 Call deposits	-	-
5.3 Bank overdrafts	-	-
5.4 Other (term deposits)	8,825	8,617
<b>5.5 Cash and cash equivalents at end of quarter (should equal item 4.6 above)</b>	<b>9,972</b>	<b>9,689</b>

<b>6. Payments to related parties of the entity and their associates</b>	<b>Current quarter \$A'000</b>
6.1 Aggregate amount of payments to related parties and their associates included in item 1	60
6.2 Aggregate amount of payments to related parties and their associates included in item 2	-
<i>Note: if any amounts are shown in items 6.1 or 6.2, your quarterly activity report must include a description of, and an explanation for, such payments.</i>	

<b>7.</b>	<b>Financing facilities</b> <i>Note: the term "facility" includes all forms of financing arrangements available to the entity.</i> <i>Add notes as necessary for an understanding of the sources of finance available to the entity.</i>	<b>Total facility amount at quarter end \$A'000</b>	<b>Amount drawn at quarter end \$A'000</b>
7.1	Loan facilities		
7.2	Credit standby arrangements		
7.3	Other (please specify)		
7.4	<b>Total financing facilities</b>		
7.5	<b>Unused financing facilities available at quarter end</b>		
7.6	Include in the box below a description of each facility above, including the lender, interest rate, maturity date and whether it is secured or unsecured. If any additional financing facilities have been entered into or are proposed to be entered into after quarter end, include a note providing details of those facilities as well.		

<b>8.</b>	<b>Estimated cash available for future operating activities</b>	<b>\$A'000</b>
8.1	Net cash from / (used in) operating activities (item 1.9) (excluding GST refund)	249
8.2	(Payments for exploration & evaluation classified as investing activities) (item 2.1(d))	(266)
8.3	Total relevant outgoings (item 8.1 + item 8.2)	(17)
8.4	Cash and cash equivalents at quarter end (item 4.6)	9,972
8.5	Unused finance facilities available at quarter end (item 7.5)	-
8.6	Total available funding (item 8.4 + item 8.5)	9,972
8.7	<b>Estimated quarters of funding available (item 8.6 divided by item 8.3)</b>	587
<i>Note: if the entity has reported positive relevant outgoings (ie a net cash inflow) in item 8.3, answer item 8.7 as "N/A". Otherwise, a figure for the estimated quarters of funding available must be included in item 8.7.</i>		
8.8	If item 8.7 is less than 2 quarters, please provide answers to the following questions:	
8.8.1	Does the entity expect that it will continue to have the current level of net operating cash flows for the time being and, if not, why not?	
Answer: Not applicable.		
8.8.2	Has the entity taken any steps, or does it propose to take any steps, to raise further cash to fund its operations and, if so, what are those steps and how likely does it believe that they will be successful?	
Answer: Not applicable.		



8.8.3 Does the entity expect to be able to continue its operations and to meet its business objectives and, if so, on what basis?

Answer: Not applicable.

*Note: where item 8.7 is less than 2 quarters, all of questions 8.8.1, 8.8.2 and 8.8.3 above must be answered.*

## Compliance statement

- 1 This statement has been prepared in accordance with accounting standards and policies which comply with Listing Rule 19.11A.
- 2 This statement gives a true and fair view of the matters disclosed.

Date: 28 January 2025



Authorised by: .....  
Xuekun Li, Company Secretary

## Notes

1. This quarterly cash flow report and the accompanying activity report provide a basis for informing the market about the entity's activities for the past quarter, how they have been financed and the effect this has had on its cash position. An entity that wishes to disclose additional information over and above the minimum required under the Listing Rules is encouraged to do so.
2. If this quarterly cash flow report has been prepared in accordance with Australian Accounting Standards, the definitions in, and provisions of, *AASB 6: Exploration for and Evaluation of Mineral Resources* and *AASB 107: Statement of Cash Flows* apply to this report. If this quarterly cash flow report has been prepared in accordance with other accounting standards agreed by ASX pursuant to Listing Rule 19.11A, the corresponding equivalent standards apply to this report.
3. Dividends received may be classified either as cash flows from operating activities or cash flows from investing activities, depending on the accounting policy of the entity.
4. If this report has been authorised for release to the market by your board of directors, you can insert here: "By the board". If it has been authorised for release to the market by a committee of your board of directors, you can insert here: "By the [name of board committee – eg Audit and Risk Committee]". If it has been authorised for release to the market by a disclosure committee, you can insert here: "By the Disclosure Committee".
5. If this report has been authorised for release to the market by your board of directors and you wish to hold yourself out as complying with recommendation 4.2 of the ASX Corporate Governance Council's *Corporate Governance Principles and Recommendations*, the board should have received a declaration from its CEO and CFO that, in their opinion, the financial records of the entity have been properly maintained, that this report complies with the appropriate accounting standards and gives a true and fair view of the cash flows of the entity, and that their opinion has been formed on the basis of a sound system of risk management and internal control which is operating effectively.