



ASX Announcement

31 July 2024

## QUARTERLY ACTIVITIES REPORT – JUNE 2024

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### HIGHLIGHTS

#### IONIC TECHNOLOGIES, BELFAST (100% IONICRE)

- Magnet Rare Earth Oxide (REO) production continues at Belfast Demonstration Facility;
- MOU signed with Less Common Metals to expand recycling operations and progress Western supply chain for rare earth permanent magnet (REPM) production;
- Feasibility Study nearing completion for Belfast Magnet Recycling; Demonstration plant operating schedule full for next 18 months amid strong interest from potential partners;
- Discussions progressing with key UK Government stakeholders, with expansion of recycling technology eyed to markets in Europe, North America, and Asia.

#### MAKUUTU HEAVY RARE EARTHS PROJECT, UGANDA (60% IONICRE)

- Significant increase in Makuutu Mineral Resource Estimate (MRE), with Indicated Resource tonnage up 28% and total MRE tonnage increasing by 16%;
- Continued production of Mixed Rare Earth Carbonate (MREC) at Makuutu Demonstration Plant;
- Off-taker engagement continues to facilitate ex-China supply chain.

#### BRAZILIAN REFINING AND RECYCLING JOINT VENTURE (50% IONICRE)

- 50:50 JV with Viridis Mining and Metals Limited (VMM) to establish magnet recycling and rare earth refinery for upgrading MREC to REO in fast-growing Brazilian market;
- Positions IonicRE as leader in supply of ex-China REOs; Scoping Study for refinery and recycling due end 2024.

### CORPORATE

- Share placement secures \$5.5 million, including \$500k from Chairman Brett Lynch, supporting international project expansion and providing important working capital.

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**Ionic Rare Earths Limited** (“IonicRE” or “the Company”) (ASX: IXR) has continued to advance its magnet recycling and heavy rare earths projects key for the global energy transition, advanced manufacturing, and defence, as highlighted by its Quarterly Activities Report for the period ending **30 June 2024**.



This report includes development activities at the Company's 100% owned magnet recycling subsidiary in the UK, Ionic Technologies International Limited ("Ionic Technologies"), and at the 60% owned Makuutu Heavy Rare Earths Project ("Makuutu" or "the Project") in Uganda.

During the June quarter 2024, IonicRE made substantial progress across project development and operational capabilities encompassing all its international operations.

At Ionic Technologies in Belfast, the Company advanced optimisation of the magnet recycling demonstration plant, the commercial plant feasibility study, strategic agreements, and hosted several groups with whom the Company is discussing the potential global expansion of the technology.

At Makuutu, work continued processing ionic adsorption clay (IAC) mineralisation at the Company's demonstration plant in Uganda, with mixed rare earth carbonate (MREC) production ramping up. During the quarter, the Company also expanded the Makuutu mineral resource estimate (MRE) significantly, with its Indicated Resource tonnage increasing by 28% and total MRE tonnage rising by 16%.

The Company also announced the formation of a joint venture with Viridis Mining and Minerals Limited (ASX: VMM) to leverage the Company's technology into the Brazilian rare earth market through both magnet recycling and rare earth refining. Brazil is attracting increased attention as a significant potential provider of rare earths to an ex-China supply chain and this agreement positions IonicRE as a leader on the path to REE production and supply.

Additionally, at a corporate level, the Company raised \$5.5 million in a share placement to support ongoing work at the operating demonstration plants across Belfast and Makuutu, together with important working capital. The Placement included participation of \$0.5 million from Chairman Brett Lynch, further to his \$1.5 million investment on joining the Company in January 2024, highlighting the Board's alignment with all shareholders.

The following report outlines the critical operations, developments, and outlook as the Company moves closer to its goal of becoming an alternative supplier of magnet and heavy rare earths critical for the energy transition, advanced manufacturing, and defence.

## IONIC TECHNOLOGIES (100% IONICRE)

Ionic Technologies continues to pioneer the recycling of Neodymium-Iron-Boron (NdFeB) permanent magnets to high purity separated magnet rare earth oxides (REOs), enabling the creation of sustainable, traceable, and sovereign rare earth supply chains.

### Magnet Recycling Demonstration Plant

In the June quarter, Ionic Technologies continued the production of separated magnet rare earth oxide (REO) at the Company's magnet recycling Demonstration Plant in Belfast, UK, an increasingly strategic asset for the UK and European supply chain. This achievement highlights IonicRE's steadfast dedication to excellence and demonstrates its capability to address the growing demands of a dynamic market, seeking alternative supply sources to those existing presently.

Ionic Technologies successfully continued to separate NdPr from heavy rare earth elements Dy, Tb and Ho in addition to the continuous demonstration-scale production of (NdPr)<sub>2</sub>O<sub>3</sub>, Dy<sub>2</sub>O<sub>3</sub>, Tb<sub>4</sub>O<sub>7</sub> and Ho<sub>2</sub>O<sub>3</sub>, with all products grading greater than 99.5%.

Based upon the REO product quality being achieved and capability demonstrated, the Company has received strong enquiries from the supply chain for further collaborations and partnerships, leading to the production

plan for the Demonstration Plant showing a fully utilised operating schedule through to Q3 2025 (ASX: 15 April 2024). The new parties represent several supply chain participants, OEMs, and potential strategic partners, with numerous groups visiting the Belfast facility to evaluate plant performance and production output first hand. These visits are highly significant and demonstrate there is strong demand for an ex-China supply chain.

## **Magnet Recycling Feasibility Study**

In the June quarter, Ionic Technologies continued to progress the commercial plant's feasibility study, including progressing site permitting work for the selected site located within Belfast Harbour. Following discussions with supply chain partners, the Company has revised the projected scale of the commercial plant, with the feasibility study to now define capital and operating costs for a plant that can process 1,200 tonnes of magnet feed material, producing approximately 400 tonnes of separated magnet REOs.

Magnet feed material will consist of end-of-life (EOL) magnets from industrial use, plus waste materials generated in the magnet production cycle, known as swarf.

## **MOU with Less Common Metals**

IonicRE signed a Memorandum of Understanding (MOU) with UK-based Less Common Metals (LCM) to collaborate on building a Western supply chain for rare earth permanent magnet (REPM) production. This MOU focuses on expanding recycling opportunities in the UK and USA, engaging with governments to support a resilient recycling capability, and producing other alloys, including samarium-cobalt (SmCo) and scandium, using Ionic Technologies' recycling technology.

The MOU builds on an existing collaboration with Ford Motor subsidiary, Ford Technologies, to develop a UK-based magnet rare earth supply chain. LCM, the only commercial rare earth metal and alloy producer outside China or its associated plants, will receive the first supply of recycled magnet rare earth oxides from Ionic Technologies in July 2024. These oxides will be converted to metals and alloys before being used in magnet manufacturing, ultimately supporting Ford's EV drive train production facility in Halewood, UK.

## **MAKUUTU HEAVY RARE EARTHS PROJECT (60% IONICRE, MOVING TO 94%)**

Makuutu currently ranks amongst the world's largest and most advanced ionic adsorption clay (IAC) deposits, and as such, is a globally strategic resource for near term, low capital development, facilitating long-term security of magnet and heavy REO supply.

Makuutu is being developed by Rwenzori Rare Metals Limited ("Rwenzori" or "RRM"), a Ugandan private company which owns 100% of the Makuutu Project. IonicRE is a 60% owner of Rwenzori, and last quarter (ASX: 11 December 2023), announced it had signed a conditional share purchase agreement to acquire an additional 34% interest in the strategic Makuutu Rare Earths Project, taking its ownership to 94% on completion. Ionic welcomes the increased ownership stake, which will facilitate long-term development of this increasingly strategic asset.

## **Makuutu Mineral Resource Estimate Update**

During the June quarter, the Company announced a significant update to the Mineral Resource Estimate (MRE) at the Makuutu Project in Uganda. The updated MRE includes a total of 126,000 tonnes of magnet Rare Earth Oxides (REOs) and 99,000 tonnes of heavy REOs. The Indicated Resource tonnage was increased by 28%, with the total MRE tonnage increasing by 16%, demonstrating a substantial advancement in the project's development.

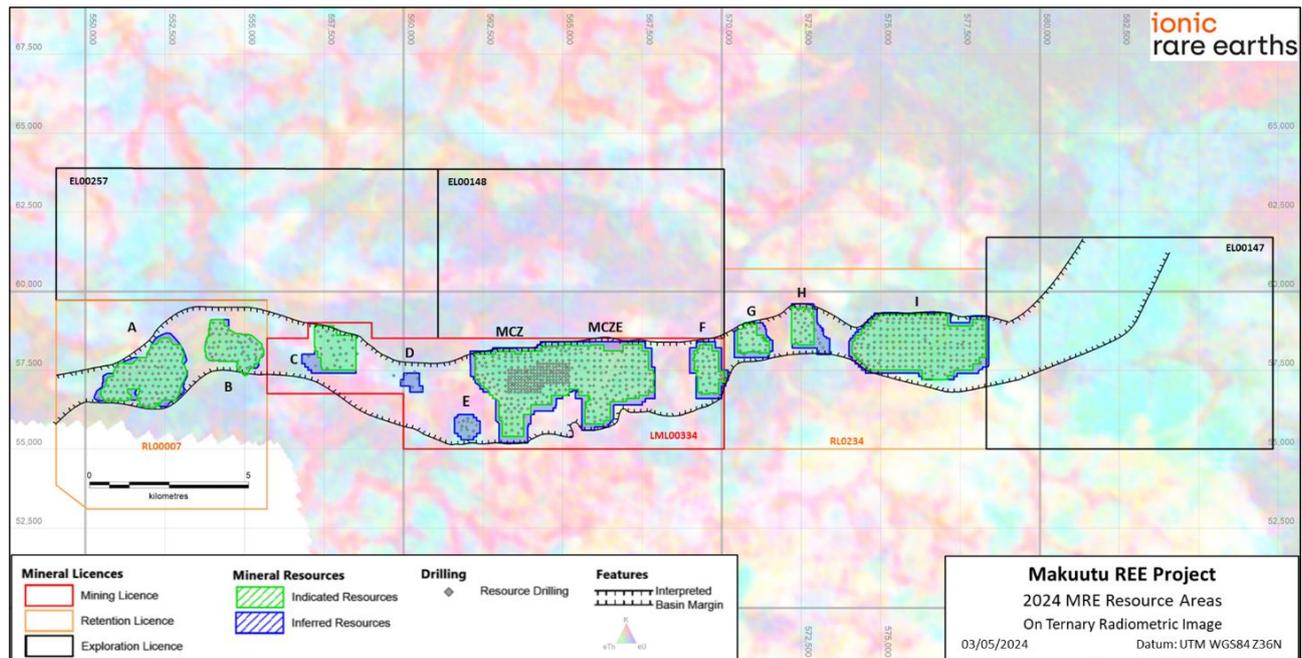
**Table 1: Makuutu Resource above 200ppm TREO-CeO<sub>2</sub> Cut-off Grade (ASX: 15 May 2024).**

Resource Classification	Tonnes (millions)	TREO (ppm)	TREO- CeO <sub>2</sub> (ppm)	LREO (ppm)	HREO (ppm)	CREO (ppm)	Sc <sub>2</sub> O <sub>3</sub> (ppm)
Indicated	517	650	440	470	170	220	30
Inferred	99	560	380	420	140	190	30
<b>Total</b>	<b>617</b>	<b>630</b>	<b>430</b>	<b>460</b>	<b>160</b>	<b>210</b>	<b>30</b>

Rounding has been applied to 1Mt and 10ppm which may influence averaging calculation. All REO are tabulated in ASX announcement 15<sup>th</sup> May 2024 with formulas defining composition of (Light Rare Earth Oxides (“LREO”), Heavy Rare Earth Oxides (“HREO”) and Critical Rare Earth Oxides (“CREO”).

The MRE update incorporated results from the 2023 Phase 5 infill and extension drilling, enhancing resource confidence and extending mineralisation by approximately 85 million tonnes. The updated MRE is estimated at 617 million tonnes at 630 ppm Total Rare Earth Oxide (TREO), marking a 16% increase in total resource with a slight 2% reduction in overall TREO grade. The Indicated component now stands at 517 million tonnes at 650 ppm TREO, reflecting a 28% increase in indicated tonnes despite a 3% reduction in TREO grade.

Based on the Phase 5 drilling assays, the mineral resource estimates were updated in Areas A and B only (refer to Figure 1).



**Figure 1: Plan view of MRE areas by classification. Green shading on Indicated resource areas and blue on Inferred resource areas with drill hole locations and mineral licences on ternary radiometric image.**

Table 2: Mineral Resources by Area

Classification	Indicated Resource			Inferred Resource			Total Resource		
	Area	Tonnes (millions)	TREO (ppm)	TREO-CeO <sub>2</sub> (ppm)	Tonnes (millions)	TREO (ppm)	TREO-CeO <sub>2</sub> (ppm)	Tonnes (millions)	TREO (ppm)
A	76	540	370	9	470	320	85	530	360
B	38	530	480	1	480	320	39	530	480
C	31	580	400	3	490	350	35	570	400
D				6	560	400	6	560	400
E				18	430	280	18	430	280
Central Zone	151	780	540	12	670	460	163	770	530
Central Zone East	59	750	490	12	650	430	72	730	480
F	18	630	420	7	590	400	25	620	410
G	9	750	500	5	710	450	14	730	480
H	6	800	550	7	680	480	13	740	510
I	129	540	350	19	530	350	148	540	350
<b>Total Resource</b>	<b>517</b>	<b>650</b>	<b>440</b>	<b>99</b>	<b>560</b>	<b>380</b>	<b>617</b>	<b>630</b>	<b>430</b>

Rounding has been applied to 1Mt and 10ppm which may influence averaging calculations.

## Makuutu Demonstration Plant Update

During the quarter, the RRM team continued demonstration plant activity to scale up production of MREC in Uganda to satisfy requirements to progress several offtake negotiations underway for Makuutu's magnet and heavy rare earth rich basket. Production activities ramped up over the June quarter and the first shipment of samples is expected to leave Uganda shortly for Australia for analysis and dispatch to potential offtake parties.



Figure 2: Demonstration plant precipitation circuit and inventory of MREC samples being dispatched to Australia for analysis.

## BRAZILIAN REFINING AND RECYCLING JOINT VENTURE

During the June quarter, the Company announced a Binding Agreement (the Agreement) with Viridis Mining and Minerals Limited (ASX: VMM) (“Viridis”) to form a 50:50 joint venture company (JV Co) with the aim of establishing a significant leading role in the future global supply chain for Rare Earth Elements (REE) (ASX: 3 April 2024).

The Joint Venture aims to construct a refinery and magnet recycling facility in Brazil utilising Ionic Technologies’ separation technology, demonstrated now at IonicRE’s Belfast magnet recycling Demonstration Plant, where magnet REO production is successfully underway.

### Joint Venture opportunity

The joint venture agreement is seen as an outstanding opportunity for IonicRE to advance the strategy of the Company to become a leading supplier to the Western world, of high quality, secure and dependable magnet and heavy rare earths, critical to the multitude of dependent industries and energy transition affecting billions of people around the globe.

Forming a 50:50 Joint Venture with Viridis, IonicRE secures strategic opportunity leveraging its technology and IP to ensure successful outcomes for both companies and for all stakeholders. This joint combination advances the growth strategy for both companies by several years and draws on the support and alignment of several state agencies of Brazil, a nation that is both rich in rare earths and aims to become a global leader in rare earth production and supply.

Both Companies will co-fund the JV company and the proposed Brazilian production facility on a 50:50 basis, with a Scoping Study targeted for completion by the end of 2024. Pending a decision to proceed, the JV Co would then aim to complete a preliminary feasibility study (PFS) within the following 18 months.

## CORPORATE

### Capital Raising

During the June quarter (ASX: 24 April 2024), the Company raised \$5.5 million (before costs) from existing shareholders, through the issue of 423,076,923 fully paid ordinary shares (“Shares”) at an issue price of \$0.013 per Share (“Placement”). Participants received 3 attaching unlisted options for every 4 shares issued with an exercise price of \$0.02 (being a 54% premium to the issue price of Shares under the Placement) and a 4-year term which will see 317,307,690 unlisted options (“Options”).

IonicRE’s Executive Chairman Mr Lynch subscribed for 38,461,539 Shares (\$500,000) under the Placement plus 28,846,154 attaching Options with an exercise price of \$0.02 and a 4-year term. This was in addition to Mr Lynch’s \$1.5 million equity investment in January 2024 when he joined the Board of the Company, increasing his aggregate investment in IonicRE to \$2 million in H1 2024 and showing his strong commitment to IonicRE’s success.

Shareholders approved the placement at a General Meeting of Shareholders held on 26 June 2024.

### Forward Outlook

Looking ahead, IonicRE is set to capitalise on the robust infrastructure and supportive policy environment for its Ionic Technologies’ Magnet Recycling facility in Belfast, UK. With continuous production now achieved, and production ramping up, a full operational schedule now until Q3 2025, the focus remains on production delivery and demonstrating product quality to potential partners.

The commercial plant feasibility study is nearing completion and will be a critical tool for the Company to negotiate further support in the UK for sovereign capability on separated magnet REOs, plus the potential expansion of the technology to other key target markets in North America, Europe, and Asia.

IonicRE has recently welcomed several analysts to the Belfast facility, while also engaging with the newly elected UK government. Support from all levels of government remains extremely strong and IonicRE sees the Belfast facility as key to the Company's future, facilitating government goals for ex-China supply while securing increased value for the benefit of shareholders.

The Makuutu Project has transitioned from development to production, now producing MREC at its Demonstration Plant on site. MREC product will be dispatched to several parties as part of advanced offtake and strategic partner negotiations as part of a plan to advance the Project towards a Final Investment Decision.

Activity on the Brazilian JV has commenced and is expected to increase later in Q4 2024, amid increased attention on Brazil as a significant potential source of ex-China supply.

## Corporate

During the quarter, the Company expended approximately \$2,247,000 on Ionic Technologies demonstration and study activities, and \$1,461,000 on Makuutu exploration, demonstration plant and study activities reported above.

Payments to related parties of the entity and their associates totalled \$254,190 and consisted of \$26,375 Non-executive Director fees and \$227,815 Executive Director fees.

## Mineral Concessions Held

IonicRE advises the following information, pursuant to ASX Listing Rule 5.3.3, for the quarter ended 30 June 2024, and to the date of this announcement.

1. No mineral exploration tenements were acquired or disposed of during the period;
2. Mineral exploration tenements held are set out below in Table 3; and
3. No farm-in or farm-out agreements were entered into during the period.

**Table 3: Makutu Rare Earths Project Tenement Details.**

Licence ID	Licence Type	Application Date	Granted Date	Expiry / Renewal Date	Area (km <sup>2</sup> )
RL00007	Retention	12/12/2022	20/12/2022	26/11/2024	43.38
LML00334	Mining	01/09/2022	28/12/2023	27/12/2044	43.78
RL00234	Retention	26/06/2021	06/07/2021	05/07/2024	47.03
EL00257	Exploration	15/07/2021	21/10/2021	20/10/2024	55.51
EL00147	Exploration	01/09/2023	Approved -Pending	Pending	60.30
EL00148	Exploration	01/09/2023	Approved - Pending	Pending	48.15

\* Renewal approved

For more information about IonicRE and its operations, please visit [www.ionicre.com](http://www.ionicre.com).

Authorised for release by the Board.

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For Investor Relations

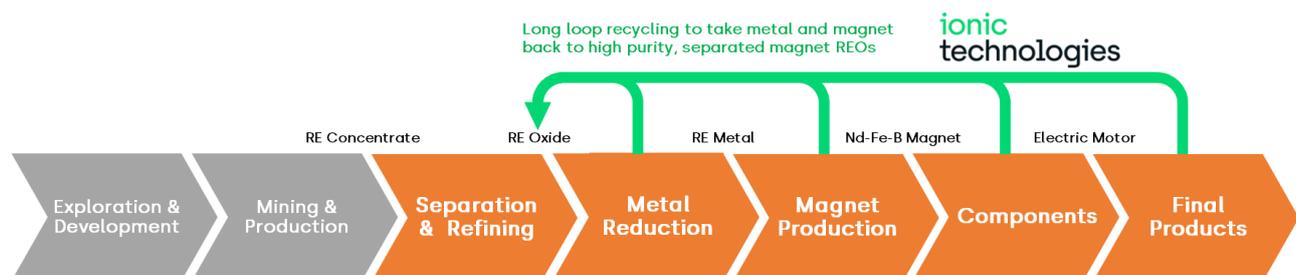
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## About Ionic Rare Earths Limited

Ionic Rare Earths Limited (ASX: IXR or IonicRE) is set to become a miner, refiner and recycler of sustainable and traceable magnet and heavy rare earths needed to develop net-zero carbon technologies.

Ionic Technologies International Limited ("Ionic Technologies"), a 100% owned UK subsidiary, has developed processes for the separation and recovery of rare earth elements (REE) from mining ore concentrates and recycled permanent magnets. Ionic Technologies is focusing on the commercialisation of the technology to achieve near complete extraction from end of life / spent magnets and waste (swarf) to high value, separated and traceable magnet rare earth products with grades exceeding 99.9% rare earth oxide (REO).

In June 2023, Ionic Technologies announced initial production of high purity magnet REOs from its newly commissioned Demonstration Plant and has moved to continuous production in March 2024, providing a first mover advantage in the industrial elemental extraction of REEs from recycling. In September 2023, Ionic Technologies announced collaboration partnerships with Ford Technologies, Less Common Metals (LCM) and the British Geological Survey (BGS) to build a domestic UK supply chain, from recycled REOs to metals, alloys and magnets and supplying UK based electric vehicles (EV) manufacturing, with potential to replicate across other key markets.



**Figure 3: Ionic Technologies' long loop recycling feed opportunities back to magnet REOs.**

The Makuutu Rare Earths Project in Uganda, (60% owned; moving to 94% in Q2 2024), is well-supported by existing tier-one infrastructure and is on track to become a long-life, low Capex, scalable and sustainable supplier of high-value magnet and heavy REO. In March 2023, IonicRE announced a positive stage 1 Definitive Feasibility Study (DFS) for the first of six tenements to progress to a mining licence, which was awarded in January 2024. Makuutu is now producing mixed rare earth carbonate (MREC) from a Demonstration Plant on site to advance offtake negotiations.

IonicRE has also executed a transformational 50/50 joint venture refinery and magnet recycling facility in Brazil with Viridis Mining and Minerals Limited (ASX: VMM) to separate high value magnet and heavy rare earths from the Colossus Project's full spectrum of REOs.

This integrated strategy completes the circular economy of sustainable and traceable magnet and heavy rare earth products needed to supply applications critical to EVs, offshore wind turbines, communication, and key defence initiatives.

IonicRE is a Participant of the UN Global Compact and adheres to its principles-based approach to responsible business.

## Competent Persons Statement

*Information in this report that relates to previously reported Exploration Targets and Exploration Results has been cross-referenced in this report to the date that it was originally reported to ASX. Ionic Rare Earths Limited confirms that it is not aware of any new information or data that materially affects information included in the relevant market announcements.*

*The information in this report that relates to Mineral Resources for the Makuutu Rare Earths deposit was first released to the ASX on 15 May 2024 and is available to view on [www.asx.com.au](http://www.asx.com.au). Ionic Rare Earths Limited confirms that it is not aware of any new information or data that materially affects information included in the relevant market announcement, and that all material assumptions and technical parameters underpinning the estimates in the announcement continue to apply and have not materially changed.*

*The information in this report that relates to Ore Reserves for the Makuutu Rare Earths deposit was first released to the ASX on 20 March 2023 and is available to view on [www.asx.com.au](http://www.asx.com.au). Ionic Rare Earths Limited confirms that it is not aware of any new information or data that materially affects information included in the relevant market announcement, and that all material assumptions and technical parameters underpinning the estimates in the announcement continue to apply and have not materially changed.*

*The information in this report that relates to Production Targets or forecast financial information derived from production the production target for the Makuutu Rare Earths deposit was first released to the ASX on 20 March 2023 and is available to view on [www.asx.com.au](http://www.asx.com.au). Ionic Rare Earths Limited confirms that all material assumptions and technical parameters underpinning the Production Targets or forecast financial estimates in the announcement continue to apply and have not materially changed.*

## Forward Looking Statements

*This announcement has been prepared by Ionic Rare Earths Limited and may include forward-looking statements. Forward-looking statements are only predictions and are subject to risks, uncertainties and assumptions which are outside the control of Ionic Rare Earths Limited. Actual values, results or events may be materially different to those expressed or implied in this document. Given these uncertainties, recipients are cautioned not to place reliance on forward looking statements. Any forward-looking statements in this document speak only at the date of issue of this document. Subject to any continuing obligations under applicable law and the ASX Listing Rules, Ionic Rare Earths Limited does not undertake any obligation to update or revise any information or any of the forward-looking statements in this document or any changes in events, conditions, or circumstances on which any such forward looking statement is based.*

## ASX Announcements

- 26 June 2024 June 2024 General Meeting Results
- 27 May 2024 IXR and LCM advance rare earth supply chain collaboration
- 15 May 2024 Makuutu Mineral Resource Estimate Expanded

# ionic rare earths

- 24 April 2024 IonicRE Raises \$5.5 Million in a Placement
- 15 April 2024 Strong Partner Interest in Ionic Tech – Plant Full For 18 Months
- 3 April 2024 IXR and VMM to form REE Refining and Recycling JV in Brazil

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## Appendix 5B

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

Name of entity

Ionic Rare Earths Limited

ABN

84 083 646 477

Quarter ended ("current quarter")

30 June 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	(1,461)	(9,416)
	(b) development	-	-
	(c) production	-	-
	(d) staff costs	(720)	(2,831)
	(e) administration and corporate costs	(734)	(3,838)
1.3	Dividends received (see note 3)	-	-
1.4	Interest received	11	85
1.5	Interest and other costs of finance paid	(17)	(61)
1.6	Income taxes paid	-	-
1.7	Government grants and tax incentives	981	2,176
1.8	Other (provide details if material)	(2,247)	(6,691)
<b>1.9</b>	<b>Net cash from / (used in) operating activities</b>	<b>(4,187)</b>	<b>(20,576)</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	(69)	(1,314)
	(d) exploration & evaluation	-	-
	(e) investments	-	(600)
	(f) other non-current assets	50	(41)

Consolidated statement of cash flows		Current quarter \$A'000	Year to date (12 months) \$A'000
2.2	Proceeds from the disposal of:		
	(a) entities	-	-
	(b) tenements	-	-
	(c) property, plant and equipment	-	-
	(d) investments	-	-
	(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>(19)</b>	<b>(1,955)</b>
<b>3.</b>	<b>Cash flows from financing activities</b>		
3.1	Proceeds from issues of equity securities (excluding convertible debt securities)	4,972	14,185
3.2	Proceeds from issue of convertible debt securities	-	-
3.3	Proceeds from exercise of options	-	215
3.4	Transaction costs related to issues of equity securities or convertible debt securities	(448)	(873)
3.5	Proceeds from borrowings	-	-
3.6	Repayment of borrowings	-	-
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>4,524</b>	<b>13,527</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	1,840	11,117
4.2	Net cash from / (used in) operating activities (item 1.9 above)	(4,187)	(20,576)
4.3	Net cash from / (used in) investing activities (item 2.6 above)	(19)	(1,955)
4.4	Net cash from / (used in) financing activities (item 3.10 above)	4,524	13,527

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

Consolidated statement of cash flows		Current quarter \$A'000	Year to date (12 months) \$A'000
4.5	Effect of movement in exchange rates on cash held	(130)	(85)
<b>4.6</b>	<b>Cash and cash equivalents at end of period</b>	<b>2,028</b>	<b>2,028</b>

5. Reconciliation of cash and cash equivalents at the end of the quarter (as shown in the consolidated statement of cash flows) to the related items in the accounts		Current quarter \$A'000	Previous quarter \$A'000
5.1	Bank balances	1,839	1,653
5.2	Call deposits	189	187
5.3	Bank overdrafts	-	-
5.4	Other (provide details)	-	-
<b>5.5</b>	<b>Cash and cash equivalents at end of quarter (should equal item 4.6 above)</b>	<b>2,028</b>	<b>1,840</b>

6. Payments to related parties of the entity and their associates		Current quarter \$A'000
6.1	Aggregate amount of payments to related parties and their associates included in item 1	254
6.2	Aggregate amount of payments to related parties and their associates included in item 2	-

*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.*

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

7. <b>Financing facilities</b>	<b>Total facility amount at quarter end \$A'000</b>	<b>Amount drawn at quarter end \$A'000</b>
<i>Note: the term "facility" includes all forms of financing arrangements available to the entity. Add notes as necessary for an understanding of the sources of finance available to the entity.</i>		
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.		

8. <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)	(4,187)
8.2 (Payments for exploration & evaluation classified as investing activities) (item 2.1(d))	-
8.3 Total relevant outgoings (item 8.1 + item 8.2)	(4,187)
8.4 Cash and cash equivalents at quarter end (item 4.6)	2,028
8.5 Unused finance facilities available at quarter end (item 7.5)	-
8.6 Total available funding (item 8.4 + item 8.5)	2,028
8.7 <b>Estimated quarters of funding available (item 8.6 divided by item 8.3)</b>	0.48
<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: No, feasibility study costs at Ionic Technologies will reduce following completion of that work, as well as overall cost reduction in the business.	
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: Yes, we expect to receive funds from research and development tax incentive claims. In addition, the Company has liquid investments in an ASX listed company with a current value of approximately A\$1.8 million.	

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

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: Yes, for reasons stated in 8.8.1 and 8.8.2 above

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: 31 July 2024

Authorised by: By the Board of Ionic Rare Earths Limited  
(Name of body or officer authorising release – see note 4)

### 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.