

## Quarterly Activities Report June 2025

### Highlights

- Finalising the front-end engineering design (FEED) phase for the Battery Recycling Pilot Plant.
- Advanced the Company's European commercialisation strategy through collaboration with battery OEMs, recyclers and PEM Aachen University. The consortium is poised to become active upon the award of a €3.1 million EU-funded battery recycling grant (ION share €560,000).
- Commenced testing of DES technology on a new e-waste recycling stream targeting metal recovery from printed circuit boards (PCBs), supported by a \$100,000 grant from Green Industries SA.
- Continued investigations into applying the DES platform to additional feedstocks including Mixed Hydroxide Precipitate (MHP), broadening its addressable market.

Subsequent to the quarter, Iondrive commenced a new CSIRO-funded project to upgrade recovered graphite to battery-grade anode material, targeting a ~25% uplift in revenue from commercial-scale recycling.

**Iondrive Limited (ASX: ION) ("Iondrive" or "the Company")** is pleased to present its report for the quarter ended 30th June 2025 (the "Quarter").

### Review of Operations

Iondrive continued to progress its commercialisation strategy during the Quarter, advancing its proprietary Deep Eutectic Solvent (DES) technology across battery recycling, e-waste recovery, and broader critical mineral processing. These activities reflect a focused effort to unlock scalable, environmentally sustainable solutions for critical mineral recovery from multiple feedstocks.

#### Battery Recycling Pilot Plant – Engineering Phase Advanced

The Company is finalising the front-end engineering design (FEED) for its first battery recycling pilot plant, which will trigger a six-month construction period, subject to the final investment decision by the Iondrive Board. The pilot facility will process black mass derived from end-of-life lithium-ion batteries and is designed to produce high-purity precursor cathode active materials (pCAM). These materials are essential inputs for battery cell manufacturing and present a strategic opportunity to develop a supply chain aligned with circular economy objectives. Results from the Company's previously completed Pre-feasibility Study indicated that Iondrive's DES technology delivers high purity metal extraction with low operating costs and very attractive environmental characteristics.

The plant is expected to play a critical role in supporting OEM validation, downstream qualification trials, and potential offtake agreements. It also serves as the next major step toward commercial deployment of Iondrive's DES platform at scale across a range of feedstocks.

### Strategic Push into Europe – Consortium Formation and Grant Submission

During the Quarter, londrive finalised the formation of a European battery recycling consortium, led by RWTH Aachen University's PEM department. The consortium brings together automotive OEMs, battery manufacturers, recyclers, and technology providers to establish a closed-loop battery materials value chain within the EU. As part of this initiative, londrive:

- Formed its European subsidiary, londrive EU GmbH, based in Germany.
- Participated in a joint €3.1 million EU grant application, of which londrive's share is €560,000 over three years.
- Continued in-field engagement with EU-based consortium partners, including multiple site visits and planning workshops.

The consortium is targeting regulatory alignment with EU Battery Regulation standards and aims to demonstrate that recycled battery cells can match the performance of those made with virgin materials. The consortium commencement is subject to the grant outcome which is expected within the next three months.

This submission forms part of a broader suite of grant applications across Europe and Australia, with londrive's share of potential funding totalling approximately A\$12 million.

### E-Waste Urban Mining – Targeting a Multi-Billion Dollar Market

In parallel with its battery recycling efforts, londrive launched a new project focused on recovering valuable metals from electronic waste (e-waste), particularly printed circuit boards (PCBs). This initiative builds on the Company's DES technology platform and leverages its environmentally friendly, closed-loop process for extracting metals such as:

- **Copper**
- **Gold**
- **Silver**
- **Palladium**
- **Rare Earth Elements**

The global e-waste market contained an estimated US\$91 billion in recoverable metals in 2022, yet only 22% was formally recycled. PCBs are among the highest-value components of e-waste, with dense concentrations of critical and precious metals. londrive's tunable DES chemistry is particularly well-suited to processing this complex feedstock, offering a safer, cleaner alternative to conventional smelting or acid leaching.

The program is being conducted at the University of Adelaide with the support of a \$100,000 grant from Green Industries SA. Two postdoctoral researchers were appointed in July, and early-stage testing is now underway. Results from this work are expected to inform the potential for a commercial-scale e-waste recycling facility. Importantly, the project also aims to establish a clear intellectual property position for londrive in the e-waste domain.

This initiative supports londrive's broader vision to become a key player in **urban mining** — extracting critical materials from end-of-life products — and diversifying its revenue streams beyond lithium-ion battery recycling.

### Technology Platform Expansion – MHP and Other Feedstocks

Beyond battery and e-waste recycling, londrive also continued early-stage evaluations into applying its DES technology to Mixed Hydroxide Precipitate (MHP), a key intermediate product used in nickel and cobalt supply chains. The ability to selectively recover high-purity metals from intermediate and mixed feedstocks could unlock new commercial opportunities across mining, refining, and industrial waste sectors.

In parallel, the Company is engaged with several other high-value feedstock opportunities that are currently subject to confidentiality and cannot yet be disclosed.

### Graphite Recovery Project

Following the end of the Quarter, londrive commenced a new CSIRO grant-funded project to upgrade recovered graphite into battery-grade anode material. The project has the potential to support a ~25% uplift in revenue from commercial-scale operations and further strengthen the economics of londrive's battery recycling platform. It also aligns with the Company's mission to increase circularity in the battery supply chain.

## Corporate

### Quarterly Cashflows

londrive has now ceased presenting its quarterly cashflow report as a "Mining exploration entity" in the form of an Appendix 5B. Given the Company's overwhelming focus on its core DES technology, londrive now utilises the Appendix 4C format for its quarterly cash flow reporting. The Appendix 4C is attached, the individual cashflow categories remain unchanged.

For the Quarter, the Company reported total net cash outflows of \$1,193,000, represented by:

- net cash outflows from Operating and Investing activities of \$1,175,000, which included \$714,000 outflows associated with research & development activities (costs directly associated with progressing the Company's DES technology); and
- cash outflows from Financing activities of \$18,000.

These cashflow movements in the Quarter resulted in a reported consolidated cash balance of \$5,867,000 at 30 June 2025. This may be further supplemented by grant funding, with funding applications in process exceeding \$12 million both here in Australia and in the EU.

Cash flows for the Quarter include related party payments of \$79,000, comprising Non-Executive Directors fees.

### South Korea Exploration

The Company is in advanced negotiations with respect to the potential sale of its South Korean exploration business and expects to provide a more detailed update in the next two months. The cashflow report for the Quarter includes \$60,000 received for exclusivity fees related to this transaction. The Company has been moving further away from its exploration roots over the past 12 months, and the sale of the business would reduce the underlying cost base of the business by approximately \$600,000 per annum.

The Company has separately sold one tenement for \$100,000. The cashflow report for the Quarter shows the receipt of \$75,000, with \$25,000 received in the prior quarter.

*Approved for release by the Board of Iondrive Limited.*

### Further Information

Dr Ebbe Dommissie  
Chief Executive Officer  
08 8368 8888  
[info@iondrive.com.au](mailto:info@iondrive.com.au)

Aiden Bradley  
Investor and Media Relations  
+61 (0) 414 348 666  
[aiden@nwrcommunications.com.au](mailto:aiden@nwrcommunications.com.au)

### About Iondrive

Iondrive is developing an innovative metal extraction process using Deep Eutectic Solvent technology (DES). Its initial business case is focussed on battery recycling where the proprietary method is designed to efficiently recover critical metals, including nickel, cobalt, lithium, and manganese, from black mass in a closed-loop, environmentally friendly process. Unlike conventional hydrometallurgical and pyrometallurgical approaches, Iondrive's DES technology operates at lower temperatures, eliminates the need for aggressive acids, and offers a tuneable chemistry that can selectively extract individual metals. Whilst progressing the battery recycling application for its DES technology, Iondrive is actively seeking to expand the commercialisation opportunities into other markets, including mineral processing and Urban mining of electronic waste.

For personal use only

## Appendix 4C

### Quarterly cash flow report for entities subject to Listing Rule 4.7B

**Name of entity**

IONDRIVE LIMITED

**ABN**

30 107 424 519

**Quarter ended ("current quarter")**

30 JUNE 2025

<b>Consolidated statement of cash flows</b>	<b>Current quarter \$A'000</b>	<b>Year to date (12 months) \$A'000</b>
<b>1. Cash flows from operating activities</b>		
1.1 Receipts from customers	-	482
1.2 Payments for		
(a) research and development (battery technologies)	(714)	(2,592)
(b) product manufacturing and operating costs		
(c) exploration & evaluation	(55)	(416)
(d) leased assets		
(e) staff costs	(205)	(732)
(f) administration and corporate costs	(364)	(1,163)
1.3 Dividends received (see note 3)		
1.4 Interest received	31	54
1.5 Interest and other costs of finance paid	-	(1)
1.6 Income taxes paid		
1.7 Government grants and tax incentives	-	406
1.8 Other (short term lease payments)	(3)	(21)
<b>1.9 Net cash from / (used in) operating activities</b>	<b>(1,310)</b>	<b>(3,983)</b>

<b>2. Cash flows from investing activities</b>		
2.1 Payments to acquire or for:		
(a) entities		
(b) businesses		
(c) property, plant and equipment	-	(40)
(d) investments		
(e) intellectual property		

Consolidated statement of cash flows		Current quarter \$A'000	Year to date (12 months) \$A'000
	(f) other non-current assets		
2.2	Proceeds from disposal of:		
	(a) entities		
	(b) businesses		
	(c) property, plant and equipment	-	8
	(d) investments		
	(e) intellectual property		
	(f) other non-current assets (tenements)	75	100
2.3	Cash flows from loans to other entities		
2.4	Dividends received (see note 3)		
2.5	Other (exclusivity fees)	60	144
<b>2.6</b>	<b>Net cash from / (used in) investing activities</b>	<b>135</b>	<b>212</b>

<b>3.</b>	<b>Cash flows from financing activities</b>		
3.1	Proceeds from issues of equity securities (excluding convertible debt securities)	-	7,033
3.2	Proceeds from issue of convertible debt securities		
3.3	Proceeds from exercise of options	-	319
3.4	Transaction costs related to issues of equity securities or convertible debt securities	(15)	(463)
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 (repayment of lease liability)	(3)	(20)
<b>3.10</b>	<b>Net cash from / (used in) financing activities</b>	<b>(18)</b>	<b>6,869</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	7,049	2,759
4.2	Net cash from / (used in) operating activities (item 1.9 above)	(1,310)	(3,983)
4.3	Net cash from / (used in) investing activities (item 2.6 above)	135	212

## Quarterly cash flow report for entities subject to Listing Rule 4.7B

Consolidated statement of cash flows		Current quarter \$A'000	Year to date (12 months) \$A'000
4.4	Net cash from / (used in) financing activities (item 3.10 above)	(18)	6,869
4.5	Effect of movement in exchange rates on cash held	11	10
<b>4.6</b>	<b>Cash and cash equivalents at end of period</b>	<b>5,867</b>	<b>5,867</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	5,061	1,612
5.2	Call deposits	806	5,437
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>5,867</b>	<b>7,049</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	79
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>		

7. <b>Financing facilities</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>	<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.		

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)	(1,310)
8.2 Cash and cash equivalents at quarter end (item 4.6)	5,867
8.3 Unused finance facilities available at quarter end (item 7.5)	
8.4 Total available funding (item 8.2 + item 8.3)	5,867
8.5 <b>Estimated quarters of funding available (item 8.4 divided by item 8.1)</b>	4.5
<i>Note: if the entity has reported positive net operating cash flows in item 1.9, answer item 8.5 as "N/A". Otherwise, a figure for the estimated quarters of funding available must be included in item 8.5.</i>	
8.6 If item 8.5 is less than 2 quarters, please provide answers to the following questions:	
8.6.1 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:	
8.6.2 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:	
8.6.3 Does the entity expect to be able to continue its operations and to meet its business objectives and, if so, on what basis?	
Answer:	
<i>Note: where item 8.5 is less than 2 quarters, all of questions 8.6.1, 8.6.2 and 8.6.3 above must be answered.</i>	

**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: 29 July 2025.....

Authorised by: The Board of Directors.....  
(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 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 standard applies 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.