

14 March 2025

Gelion plc
("Gelion" or the "Company" or the "Group")

Notice of Results and Investor Presentation

Gelion (AIM: GELN), the Anglo-Australian battery innovator, will announce its interim results for the six months ended 31 December 2024 on Wednesday, 19 March 2025.

Investor Presentation

The Company will host a retail investor presentation on 19 March 2025 at 9.30 am GMT, via the Investor Meet Company platform.

The presentation will be hosted by John Wood - CEO and Amit Gupta - CFO and is open to all existing and potential shareholders.

Registration can be completed via the following link:
<https://www.investormeetcompany.com/gelion-plc/register-investor>

Questions can be submitted pre-event via the Investor Meet Company dashboard up until 9.00am GMT the day before the meeting or at any time during the live presentation. Investors who already follow Gelion on the Investor Meet Company platform will automatically be invited.

CONTACTS

Gelion plc
John Wood, CEO
Amit Gupta, CFO

via Alma

Cavendish Capital Markets Limited (Nominated Adviser and Joint Broker)

+44 20 7220 0500

Corporate Finance

Neil McDonald / Seamus Fricker / Adam Rae

Sales

Louise Talbot

Oberon Capital (Joint Broker)

+44 20 3179 5300

Nick Lovering / Mike Seabrook / Adam Pollock

Alma Strategic Communications (Financial PR)

Justine James / Hannah Campbell / Will Ellis Hancock

+44 20 3405 0205

gelion@almastrategic.com

About Gelion

Gelion ("gel: ion") is a global energy storage innovator, supporting the transition to a more sustainable economy by commercialising two globally important next generation technologies: Lithium-Sulfur (LiS) and Zinc-based (Zn) hybrid cells to electrify mobile and stationary applications. Gelion plc (the Group) is listed on the London Stock Exchange's Alternative Investment Market and wholly owns Australia based Gelion Technologies Pty Ltd and UK based OXLiD Ltd. Gelion is designing and delivering innovative battery technologies and integrated systems solutions to enable that transition and return value for its customers and investors.

Lithium Sulfur

Gelion's effort is directed at the potential for the Li-S chemistry to deliver double the gravimetric energy density of standard Lithium-ion chemistries, whilst concurrently reducing cost and increasing safety, targeting the EV and e-aviation market, helping to make global transport, energy consumption and storage more sustainable.

Gelion is developing a GEN 3 Lithium-Sulfur cell product for its high energy density sulfur cathode at its expanded R&D facilities in Australia and UK, enabling it to integrate with a variety of anodes ranging from graphite to silicon to lithium-metal, depending on the targeted application.

Gelion's GEN 3 cell is unlocking the potential of sulfur batteries for a wide range of global mobile applications including electrical vertical-take-off-and-landing (eVTOL), drone markets, electric vehicles (EVs) and stationary energy storage (ESS).

Advantages of Gelion's GEN 3 Lithium Sulfur

- **High energy density** - Energy density > 400 Wh/kg, when using a 10+ Ah pouch cell.
- **Semi-solid-state / Solid-State as a route to increased longevity/cycle life**: GEN 3 employs a semi-solid-state and solid-state mechanism which mitigates the major degradation factor associated with conventional Li-S technology.
- **Increased sulfur utilisation**: GEN 3 demonstrates the full theoretical capacity of sulfur, i.e. a much higher sulfur utilisation than found in conventional Li-S approaches.

- **Simplified supply chain:** The innovative cathode is produced by mixing commercially available materials with abundant sulfur using a low-energy, room-temperature process, with potential to eliminate the need for pre-fabrication of the sulfur composite (sulfur composite is related to cathode active material in conventional lithium-ion batteries), streamlining the associated supply chain and production process and enabling localised manufacturing.
- **Environmental and economic benefits:** The water-based, standard-atmosphere cathode production process eliminates the need for toxic solvents, leading to significant cost savings and enhanced manufacturability.

Glossary

1MPa	This level of pressure replicates real-world pressure conditions inside batteries and is crucial for ensuring the durability, efficiency, and performance of the separator in practical applications.
Ah	Ampere hours. A measure of capacity stored in the cell. The larger the number the higher the capacity.
Energy density (Wh/kg)	The ratio of energy stored per unit weight i.e. Watt-hours per kilogram. The higher the number the lighter the battery.
Pouch cell	An industry standard format of a battery which comprises a flat pouch-shaped design with a multi-layered laminate structure.
Solid-to-solid conversion	A low or polysulfide-free conversion of sulfur within the cathode. Polysulfides are a dissolved form of sulfur that is corrosive and reduces cycle life in traditional lithium-sulfur batteries. Solid-to-solid conversion helps mitigate the formation of these polysulfides.
Semi-solid state as a route to increased longevity/cycle life:	Gelion's GEN 3 technology can employ a semi-solid-state mechanism, maintaining the sulfur-based cathode materials in the cathode, preventing their diffusion into the electrolyte and diminishing associated battery degradation caused by reactive polysulfides. This approach mitigates the major degradation factor associated with conventional Li-S technology.
Solid state separator	A solid-state separator is a solid material that separates the anode and cathode in a battery, enabling ion transfer while preventing short circuits enhancing battery safety, supports higher energy densities, and allows stable use of a lithium metal anode, increasing capacity and lifespan.
Cycle life	The number of full charge and discharge cycles a battery can complete before its capacity falls below a specified level, typically 80% of the original capacity. Higher cycle life indicates longer-lasting performance.

Zinc

Gelion is adapting its zinc technology to comprise an alternate cathode technology, a zinc hybrid cell to develop complementary next-generation batteries for the lead-acid eco-system. Early testing indicates that this solution has the potential to maintain good energy density levels with enhanced cost and safety aspects. Once fully developed, Gelion intends for our zinc technology to provide a durable and sustainable market extension within the ecosystem that supports lead-acid batteries.

Recycling

Gelion is pioneering an innovative battery recycling technology designed to enhance and supplement current recycling methods. Our technology aims to significantly reduce the initial costs of recycling plants, minimize waste, and lower carbon emissions, while improving the purity of metal products and enabling efficient lithium extraction. This advancement will allow for a broader range of scrap materials to be recycled. Currently in the feasibility stage, Gelion is committed to advancing our technology to a pilot-scale demonstration, paving the way for commercialisation through material production and IP licensing.

Integration

Gelion leverages its significant integration and BMS capability to deliver bespoke BESS for Australian customers. These BESS are currently based on lithium-ion technology and will also include Gelion's next-generation batteries as these become available. Gelion will deploy BESS with our proprietary cloud-based battery monitoring system, which will provide real-time diagnostics and alerts to maximise performance and return on investment for our customers.

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