



Clean energy storage,
creating the climate
of tomorrow.

Company
Overview

November 2021



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Our Mission

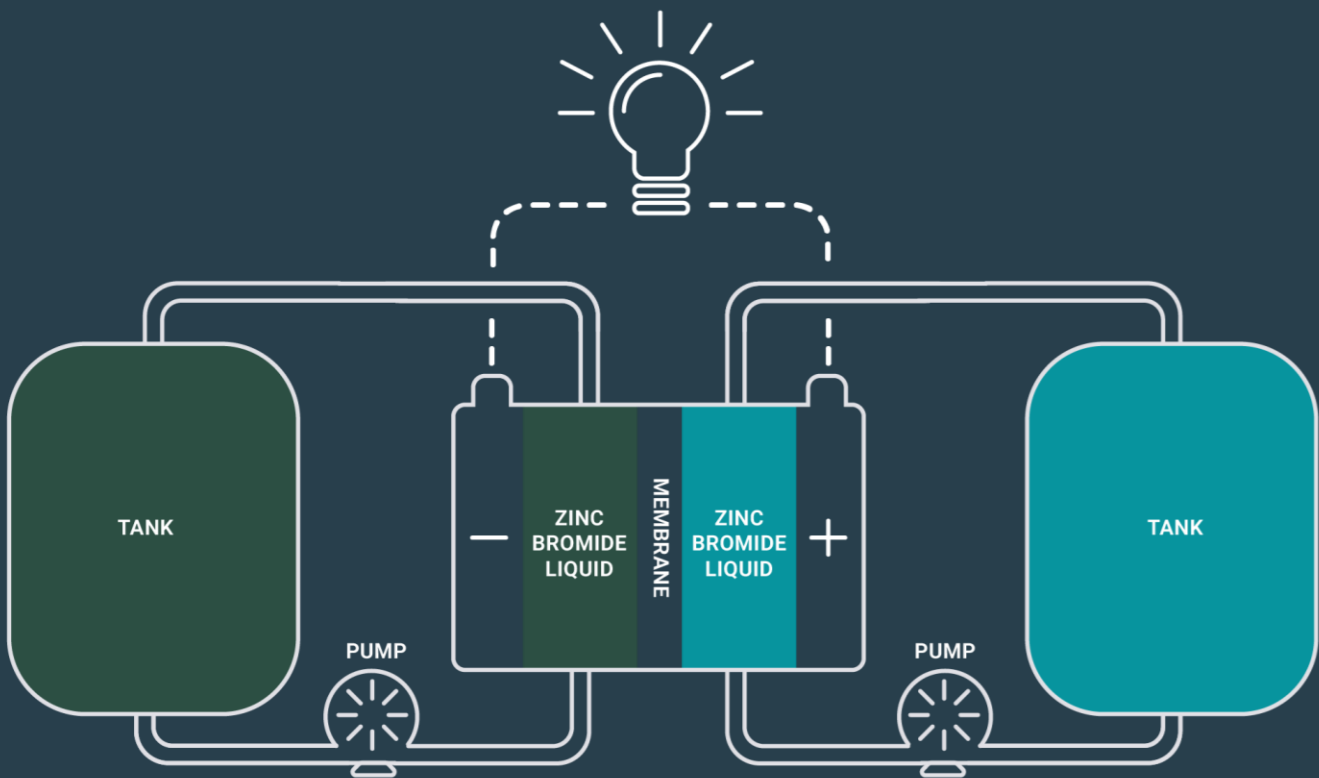
To provide global energy storage solutions that are robust, safe, affordable with low environmental impact, enabling the supply of clean power and fresh water for all.

United Nations
Sustainable Development Goals (SDG)



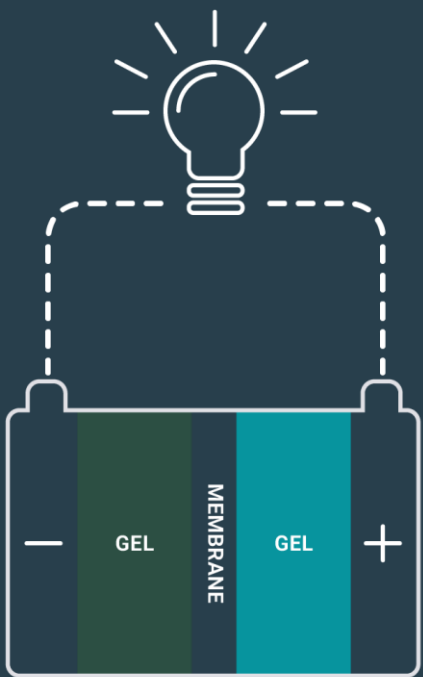
Gelion Technology Breakthrough

From :- Traditional Zinc Bromide Flow Battery



VS

To :- Gelion Zinc Bromide Non-Flow Battery



Our Leadership Team



Thomas Maschmeyer

Founder and Principal Technology Advisor, Gelion Technologies

A serial entrepreneur with four successful companies so far, Thomas was most recently awarded Australia's top honour in technology — the Prime Minister's Prize for Innovation (2020). He is ranked #15 in the list of most influential chemists during 2010 – 2020 globally.

The founding Director of the University of Sydney's \$150M Nano Institute, Thomas is currently Professor of Chemistry, leading the University's Laboratory of Advanced Catalysis for Sustainability.



Steve Mahon

Chairman Gelion UK

Steve is an experienced investment professional and business entrepreneur with a long career in managing and investing in the environmental sector. He combines a detailed understanding across a wide range of clean technologies with the first-hand experience of growing early-stage businesses.

He is the co-founder and CEO of Armstrong Capital which has investments across renewable energy, agriculture, battery storage and recycling. He has a first-class degree and PhD in Geophysics and Planetary Physics.



Andrew Grimes

CEO

Andrew is a trained Chemical Engineer with over 25 years experience in both technical and commercial roles. His early career was with large listed multinational companies including Shell, Nuplex and ICI, while more recently he was Group CEO of a multi-national specialty chemicals company.

Andrew has completed a Masters of Sustainability at the University of Sydney.



Amit Gupta

CFO

Amit is a Chartered Accountant with over 15 years of experience in accounting and finance roles. Amit started his career with KPMG and prior to joining Gelion, was a Director at Deloitte's Financial Advisory team providing professional services advice, predominantly in respect of IPOs, mergers and acquisitions. Over the last few years, Amit has primarily focussed on Australian and cross border IPOs.

Amit holds a Bachelor of Commerce, Master of Finance and Master of Accounting.



Stuart Rayner

Commercial Director

Stuart brings to Gelion over 20 years of global technology solution and professional services sales experience gained from IBM, Computer Associates (CA) and Ernst & Young.

Prior to Gelion, Stuart worked with Ignite Energy Resources and Licella commercialising novel renewable energy technologies with partners in Australia, Canada and the UK.

Stuart holds a Bachelor of IT and Business with distinction from the University of South Australia.

Our Investment Opportunity

Breakthrough technologies for the clean energy revolution, Gelion has raised £22m to achieve EBITDA B/E in 2024.

Gelion Energy Solutions

Stationary Energy Storage (Funding £18m)



Zinc Bromide

- Market US\$86B by 2025 CAGR 24%
- Low cost, safe, recyclable alternative to Li-ion
- LCOES¹ lower than Li-ion at Gelion <100MWh production scale
- Capital light manufacturing strategy
- Anticipate First sales in 2023, 400 MWh MoU's

Gelion Performance Additives

Mobile Energy EVs and e-Aviation (Funding £4m)



Advanced Li-ion,
Silicon Anode

- Anode Market US\$18-\$47B², 2030 CAGR 14%-30%³
- Low cost Si nano particle for market shift to 70% usage by 2030
- 10+ times cost advantage vs incumbent comparable additives
- Drop-in to existing Li-ion manufacturing (500GWh +)
- Anticipate first licensing/ offtake sales to battery & anode manufacturers in 2023



Lithium Sulfur

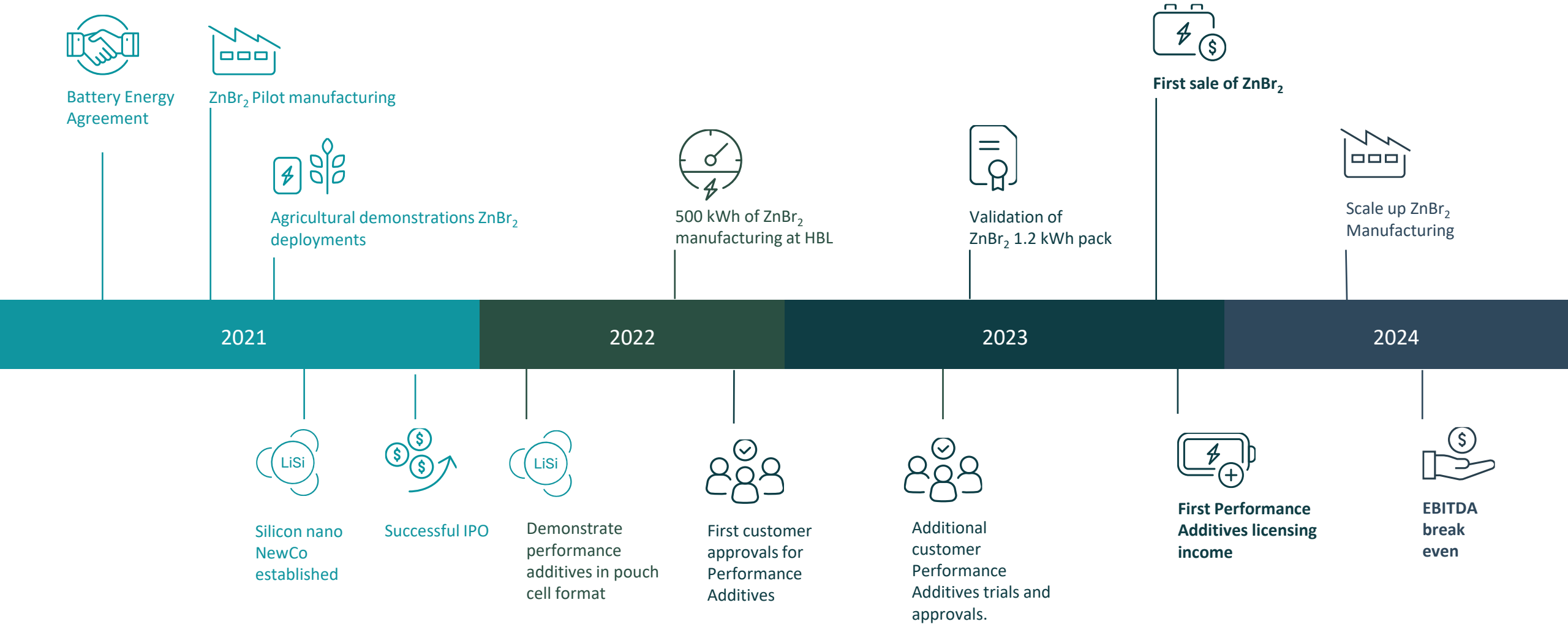
- Access to EV & future E-Aviation markets
- Increase cycle life by 4x vs internal Li-S cell benchmark.
- Low-cost input materials and low temperature manufacturing process
- Minimal modification to manufacturing process.
- Anticipate first licensing/offtake to battery manufacturers in 2025

¹ LCOES levelised cost of energy stored comparison with Lithium-ion for 100kWh off-grid system deployment.

² Gelion Management estimate (\$18B = 1.1 mt of graphite anode in 2030 (\$30B = 3mt by BMI), 30% replacement by Si, 70% Adv. Li-ion market penetration & sales price of US\$75/kg).

³ Avicenne Energy 2019 (CAGR calculated from year 2021 through 2030)

Commercialisation Milestones



Gelion Technology Patents and IP

Gelion continues to develop and patent our ZnBr₂ Endure technologies. Gelion and our partners continue to develop and patent the Performance Additives for advanced Lithium-ion battery technologies.

Patent coverage seeks protection in targeted regions.



ZnBr₂ Patent Families

1. Gelated ionic liquid film-coated surfaces and uses thereof
2. Battery with Halogen Sequestering Agent
3. Inert Current Collector
4. Battery with carbon gel electrode
5. Energy storage device management system
6. Cell equalization process for Zinc Halide batteries

Coverage

Broad cell and materials coverage.

Electrode materials key to functionality, differentiates from competitors

Blocks major alternate technology pathways for the Endure electrodes

Blocks major alternate technology pathways for the Endure electrodes

Covers unique design aspects of Endure battery management system

Cell operation requirements for Endure integration into battery systems

Status - July 2021

Patent registered in both regions

Patent pending in most regions

Patent pending in Region 2

Patent pending in Region 2

Patent pending

Provisional pending³

Gelion's Partners' Technology Patents

Performance Additives Patent Families

7. Thermochemical processing of exothermic metallic system (**Partner IP¹**)
8. Low temperature aluminothermic reduction of metal oxides (**Partner IP¹**)
9. Lithium-Sulfur battery additive (**Gelion IP²**)

Coverage

Manufacture methods for nano-Si precursors. Enables #8

Manufacture methods for nano-Si particles in Li-ion electrodes

Novel electrode additive for cycle-life stability of Li-S batteries

Status - July 2021

Patent registered in key regions

PCT Application pending

Provisional pending³

¹ Gelion subsidiary expected to have an exclusive global license for partner IP. Term sheet executed and definitive agreement in progress.

² Gelion has an exclusive global license for partner technology and the option for full IP ownership rights upon successful IPO.

³ Gelion has as a provisional application in Australia and has the option to gain coverage in any region.



Summary

Breakthrough battery technology founded in 2015 by Professor Thomas Maschmeyer, a spin-out from the University of Sydney.

Gelion's battery system is a low cost, safe and recyclable alternative to Lithium-ion (Li-ion) and Lead Acid (PbA) technologies.



Over 130 countries are committed to achieving net zero emissions by 2050.

Uses abundant Zinc Bromide (ZnBr₂).

Low cost inputs.

Zinc vs lithium hydroxide

US \$3,000 versus
US \$17,100/tonne¹

No conflict minerals required.

LCOES² lower than
Li-ion at Gelion <100MWh p.a.
production scale.

¹ London Metals Exchange September 2021

² LCOES - levelised cost of energy stored



Summary

Manufacturing

Gelion's Non-Flow ZnBr₂ battery enables a low cost manufacturing process with minimal maintenance costs.

Manufacturing Capex estimated for 1 GWh capacity: -

Gelion brownfield ~US \$16 M vs
Li-ion greenfield ~US \$132 M¹

¹ Northvolt 32GWh Li-ion plant, Europe's largest, will cost US\$4.25 B.

Strategic manufacturing partner agreements signed.



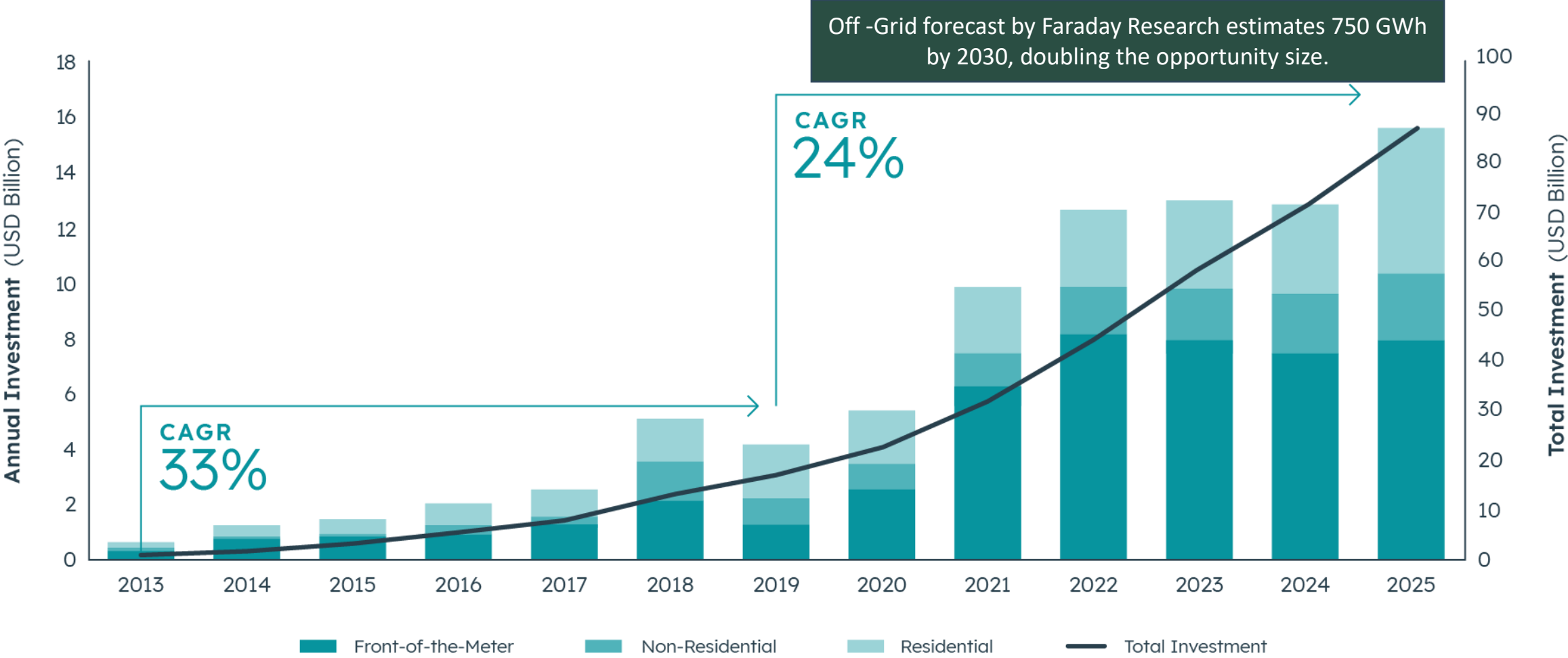
India



Australia

400 MWh off-take MoUs signed.

Gelion Targeting The High Growth Opportunity In The Global Stationary Energy Storage Market



Source: Wood MacKenzie, June 2021

Gelion Competitive Advantages

ZnBr₂ Non-Flow chemistry

A lower levelized cost of energy storage (LCOES) alternative to Li-ion and PbA battery technologies.

Low Cost, Safe and Recyclable Battery

01

Low cost, Long-life, Long-duration

Uses abundant ZnBr₂ improving LCOES and life-time.

Designed for longer duration discharge, ideal for energy shifting.

02

Safe and High Temperature Tolerant

Gelion's ZnBr₂ chemistry acts as a fire retardant, with no thermal runaway. It can operate at high temperatures, where safety and resilience are high priority requirements.

03

Highly Recyclable

A highly recyclable battery that is easily dismantled, contains a low-impact electrolyte and is environmentally sustainable. Lowers end-of-life disposal costs.

04

Robust and Abuse Tolerant

Can be discharged to zero volts without harming the battery's performance. Delivers 100% Depth Of Discharge (DOD) capability.

Gelion Fire Safe Battery Technology



Gelion battery cell

Gelion Fire Safe Battery Technology



Gelion battery cell

Smoke generation
Electrolyte boils
Battery operates, light still on



Hot plate heated by gas burner to 600° C

Gelion Fire Safe Battery Technology

Smoke generation
Electrolyte boils
Battery operates, light still on

No fire
Reduced smoke
Light still on



Gelion battery cell

Hot plate heated by gas burner to 600° C

Battery was recharged and operated the next day

Lithium-ion Fire Safety

“The recommended process is you cool everything around it so the fire can’t spread, and you let it burn out.”

-Ian Beswicke
Country Fire Authority (CFA) incident controller

23 large scale li-ion battery fires occurred in South Korea 2017-2019

Source EverSpring.net

450 MWh li-ion battery, largest in southern hemisphere



Li-ion battery burns for 3 days, “out of control” August 2021

Gelion Competitive Advantages

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Award-Winning Technology



PROFESSOR THOMAS MASCHMEYER



CONFIDENTIAL GELION 2021

Awards for Gelion & Technology Founder Thomas Maschmeyer

2021

[Australian Academy of Science David Craig Medal >](#)

2020

[Australian Prime Minister's Prize
for Innovation in Science >](#)

[Ranked #15 in World's leading Chemists
2010 — 2020 >](#)

[Times Higher Education Top Ten
'Academics Who Mattered in 2020' >](#)

[AFR Higher Education Award in Sustainability >](#)

2019

[European Industrial Energy Enlightenment Award >](#)

[Federation of Asian Chemical Societies'
Contribution to Economic Development Award >](#)

2018

[CSIRO Eureka Prize for
Leadership in Innovation and Science >](#)

[RACI R.K. Murphy Medal >](#)



Gelion Technology Evolution

Round Trip Efficiency (RTE)



Early-Stage R&D
Single cells

Advanced R&D
Gel electrodes

Test cells disc format

Prototype vertical cell format

Commercial product vertical
cell format

65% RTE

70% RTE

75% RTE

80% RTE

>87% RTE

1Wh Cell

2.5Wh Cell

4Wh Cell

210Wh Cell

>1200Wh monoblock

2016

2018

2019

2020

2021(+)

University of Sydney Lighting
Project

In-field
deployments 2021



Gelion Commercialisation Pathway

Horizon 01

Off-Grid Agriculture, Fresh Water Supply, Mining Applications 2022 — onwards

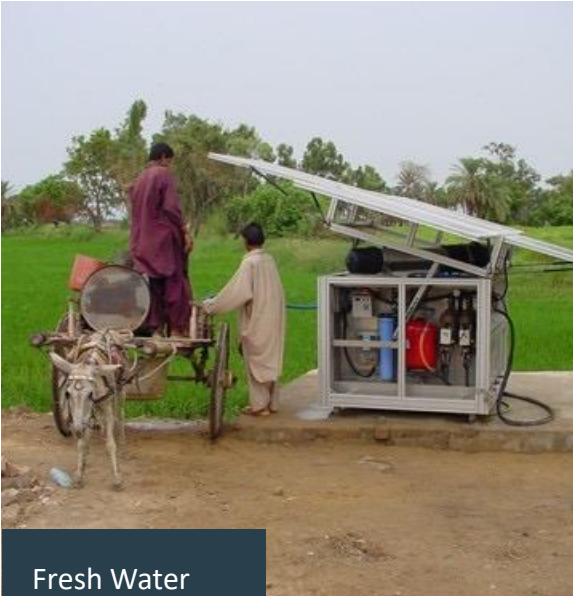
Commence deploying systems with partners, e.g. 10 kWh–1MWh and 48V DC / 240V AC



Stand-Alone Power Systems



Agriculture



Fresh Water Supply



Mining Dewatering

Gelion Commercialisation Pathway

Horizon 02

Scale up — Large C&I, Solar and Wind Farms and Utility Scale 2024 — onwards

Modularised battery system to enable capacity scale up and high voltage deployments, e.g. 100 kWh – 50+ MWh and 800V.



Commercial & Industrial (C&I) Including Green Hydrogen production



Solar Farm



Wind Farm



Utility Grid

Our Alliances

Technology

Manufacturing

Off-take MoUs

Global



Global European Renewable Energy Company





Performance Additives



Gelion Performance Additives

Targeting the high growth electric mobility markets.



Cars



Drones

EV battery market sales forecast US\$125 billion 2030 CAGR 18% p/a¹.



Trucks



Electric Aviation

Si nano particle market by 2030 US \$18 to \$47 billion².

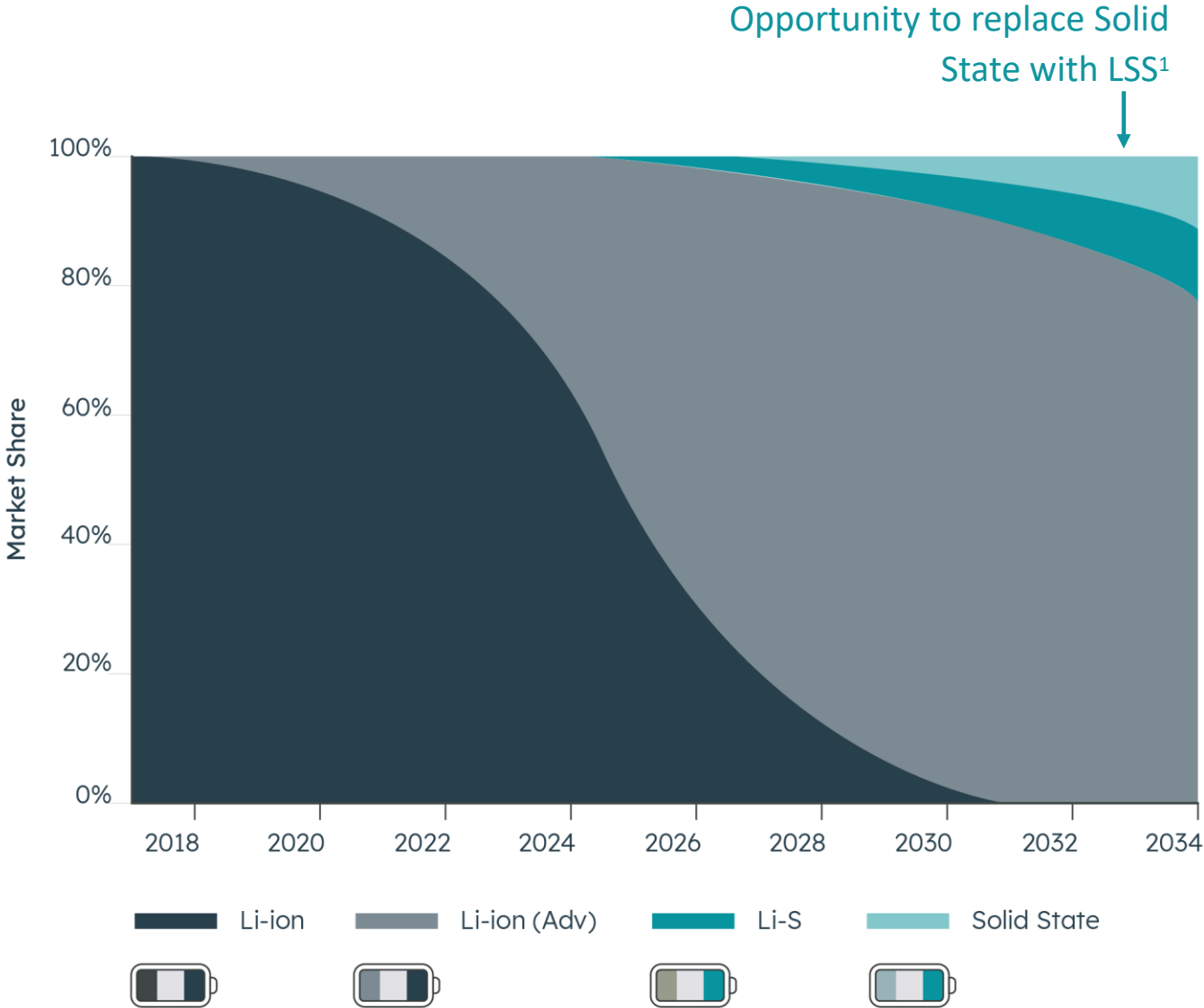
¹ Avicenne Energy 2019 (CAGR calculated from year 2015 through 2030)

² Gelion Management estimate (\$18B = 1.1 mt of graphite anode in 2030 (\$30B = 3mt by BMI), 30% replacement by Si, 70% Adv. Li-ion market penetration & sales price of US\$75/kg).

Gelion Performance Additives

Forecast future market share of lithium-based battery technologies

Gelion Performance Additives support next-generation lithium battery technologies.

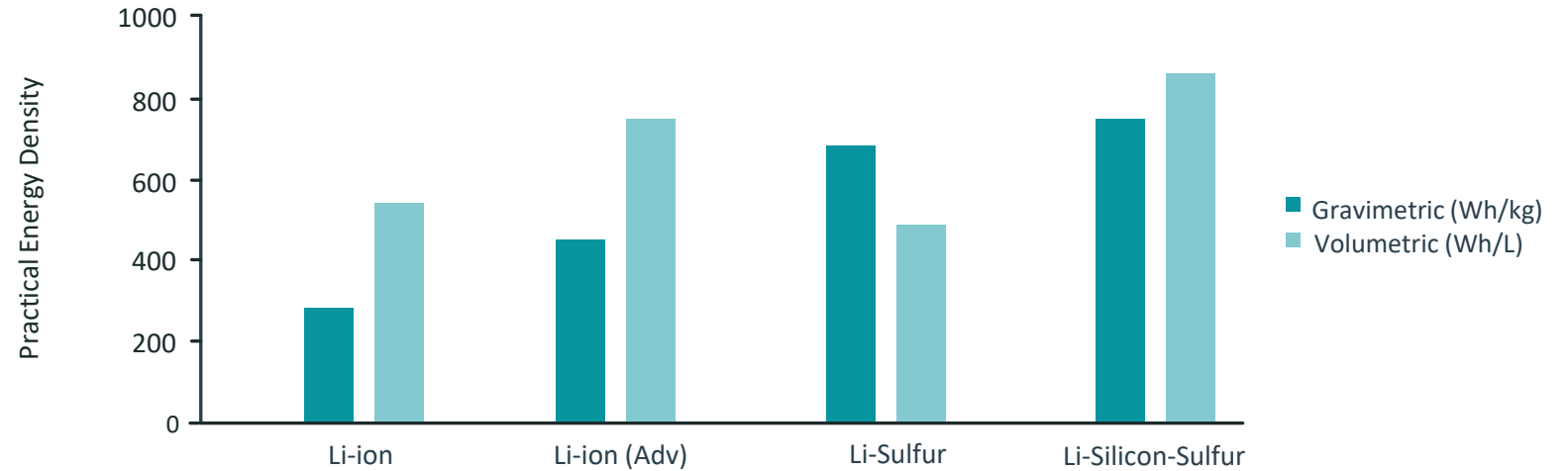


¹ Gelion management aim

Source: Lux Research

Performance Additives

By enabling advanced silicon and sulfur electrodes, Gelion can achieve high to ultra-high energy densities.



Li-ion (Adv)

Use of a silicon anode dramatically increases volumetric energy density and charging rates.

Production Cost US(\$/kg)

Industry	\$800 +/kg
gelion	<\$100/kg

Li-Sulfur

High specific capacity sulfur cathode and lithium anode, increases gravimetric energy density.

Gelion additive enables sulfur management.

✓
4x Cycle life

✓
Low cost additives

Lithium-Silicon-Sulfur

High power silicon anode with sulfur cathode, dendrite-free ultra-high density cells.

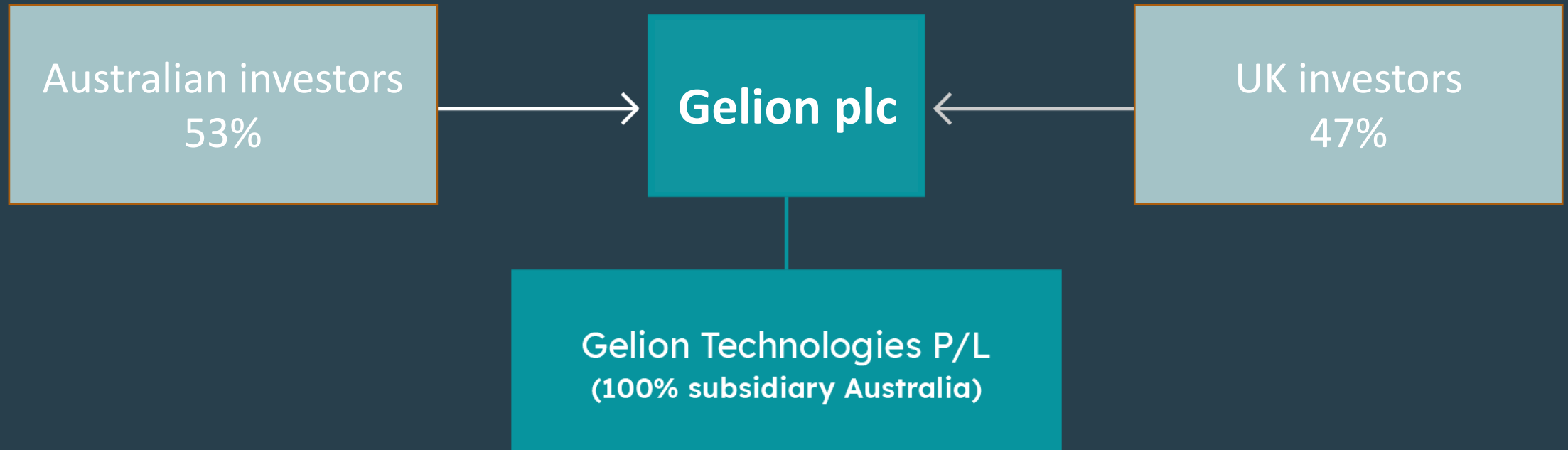
Combines benefit of both additive-enabled electrodes to unlock unique applications.



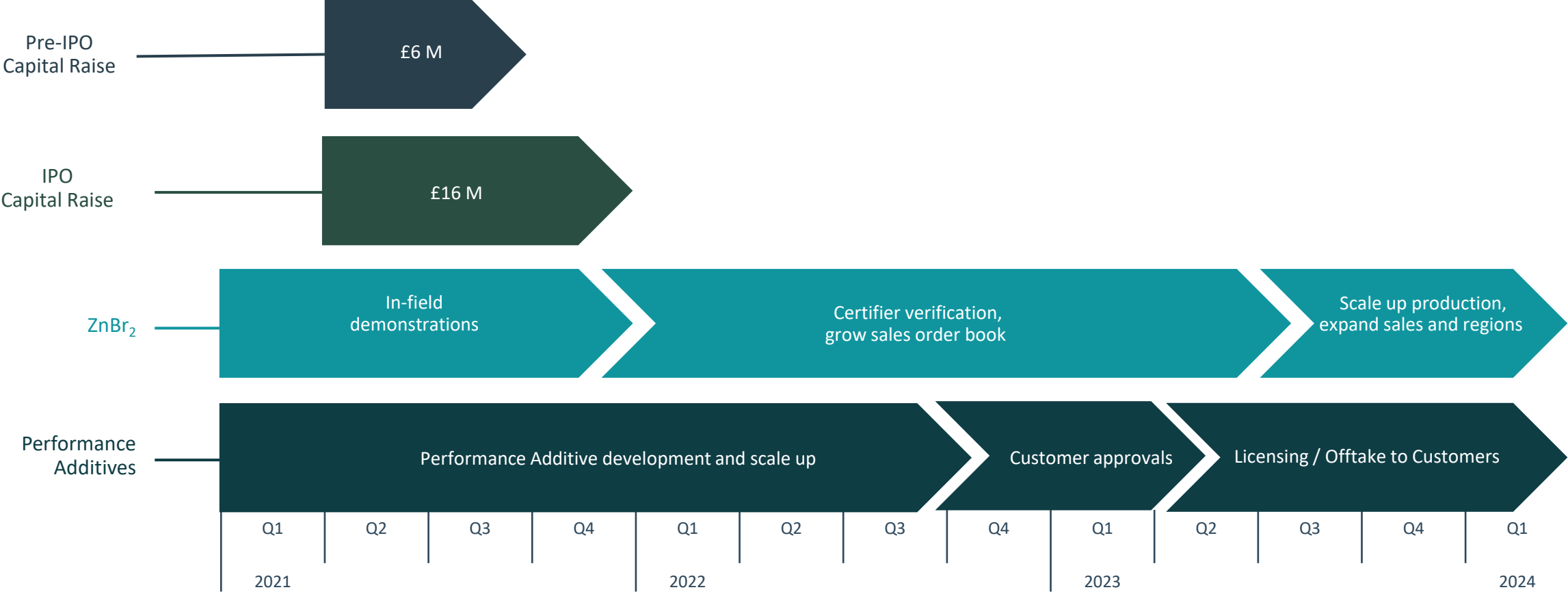
Gelion Capital Raise 2021 Discussion



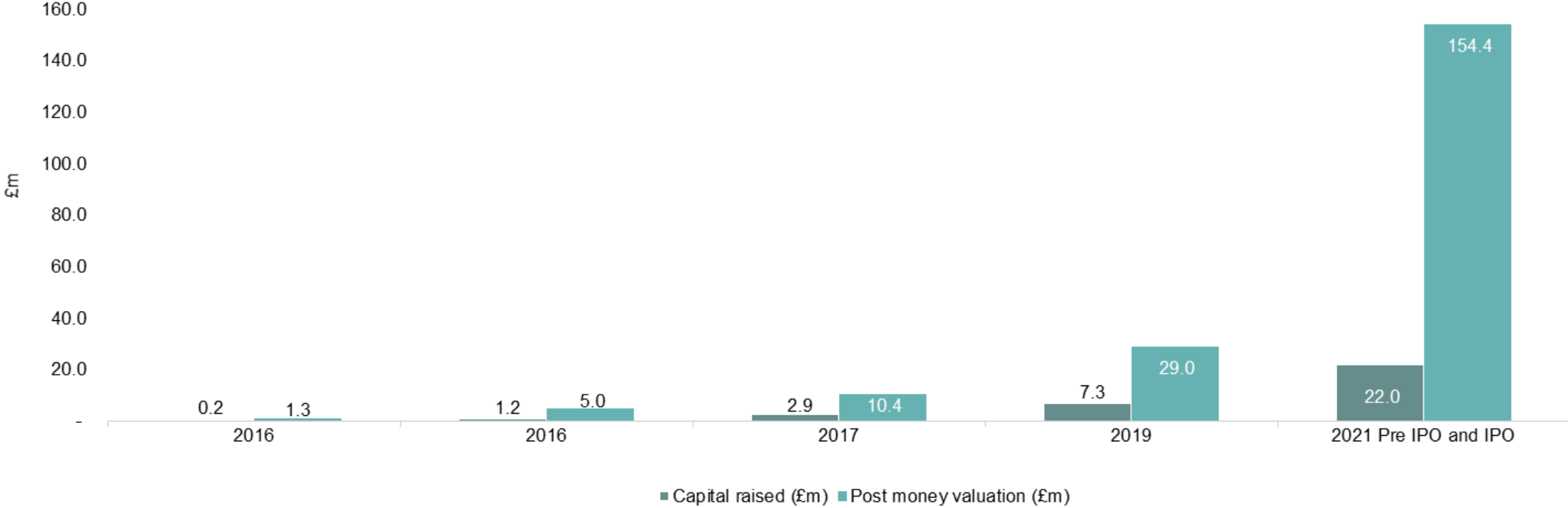
Structure



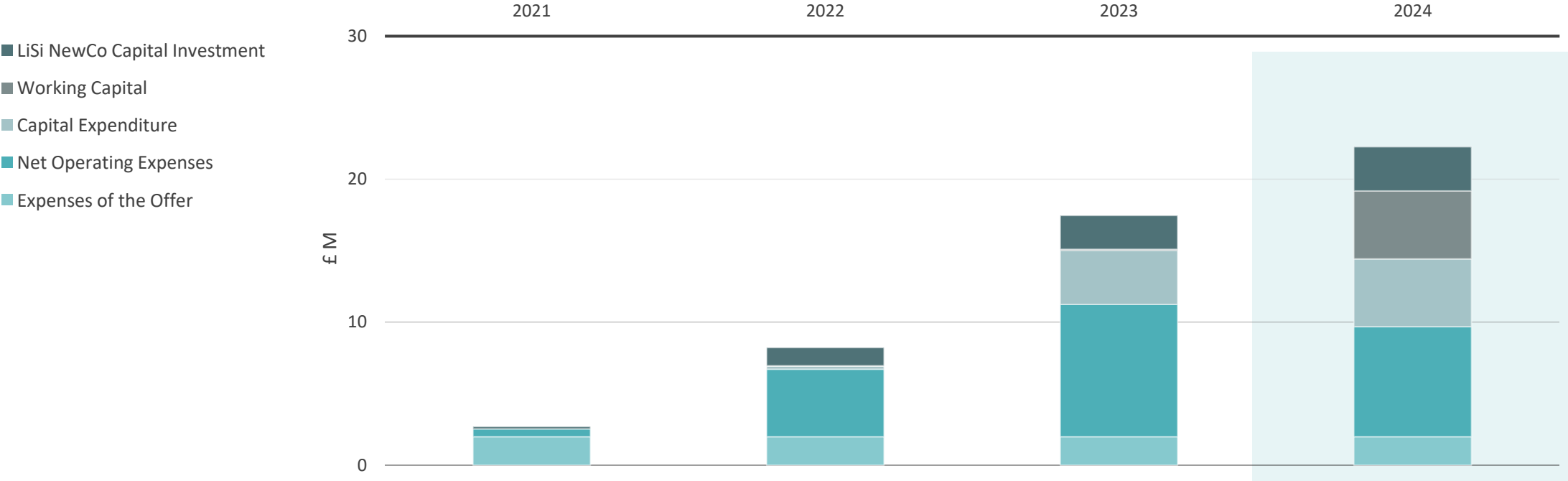
Commercialisation and Funding Timeline



Capital Raisings and Valuation Growth



Use of Funds (Cumulative)



£22M Runway		EBITDA break-even
Use of Funds		Capital raise to Q4 2024 (£ M)
Net Operating Expenses		£7.7
Capital Expenditure		£4.7
Expenses of the Offer		£2.3
LiSi NewCo Capital Investment		£3.0
Working Capital		£4.1
Total Uses of Funds		£22.0



Thank you