

# Li-S Energy

## Investor Update

21<sup>st</sup> October 2024



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# Key Takeaways

- **Strong Cash Position** - \$26.6M in cash and short term investments at 30 June
- **Clear Strategy** - focused target markets, highly differentiated technology and plan to scale
- **Phase 3 successfully commissioned** on time and under budget
- **Cells being produced** - 10Ah and 20Ah cells under test
- **Intelligent BMS** - to more rapidly integrate packs into partner products
- **First Product Integration Underway** - integrating Li-S cells and packs into the VTOL 'Dawn-til-Dusk' UAV – awarded \$1.35M Government grant
- **Strong and growing partner pipeline** - particularly in the drone and defence markets





# Our markets & partners



We are targeting markets where the most energy dense cells are projected to command 5 -10 times the price of normal EV cells<sup>1</sup>



## DRONES

- Drones market size by 2027 - \$61B<sup>2</sup>
- Annual battery market by 2027 - \$12B<sup>2</sup>
- Partners – V-TOL Aerospace, Boeing InSitu



## eAVIATION

- eAircraft sales p.a. by 2035 - 15,000<sup>4</sup>
- Annual battery market by 2035 - \$20B<sup>5</sup>
- Partners: Magnix/NASA – others under NDA



## SECURITY & DEFENCE

- Key targets: drones and light weight military batteries
- \$1.27B annual military battery market by 2030<sup>6</sup>
- Partners currently under NDA

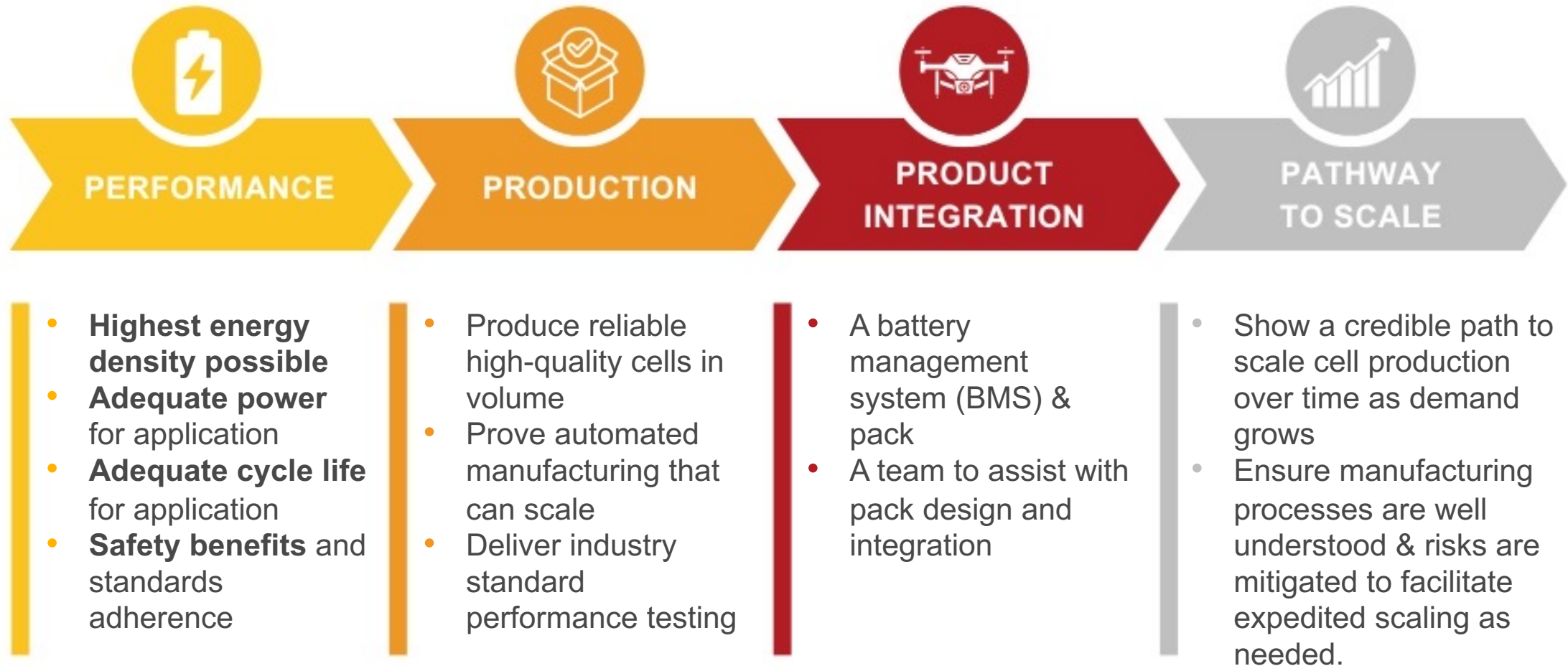
1. Source IDTechEX Report: Solid-State and Polymer Batteries 2021-2031  
2. Source Precedence Research – Unmanned Aerial Vehicle (UAV) Drones Market 2022 – 2027  
3. eAviation EAP advanced subsonic aircraft image courtesy of NASA  
4. Source IDTechEX Report : Manned Electric Aircraft: Smart City and Regional 2021-2041  
5. Based on an estimated average pack size of 1500KWh @ US\$900 per KWh  
6. VMR Report: Military Battery Market: Global market size, status and forecast to 2030

*All amounts in USD*



# Partner Requirements

We are delivering against key requirements to capture strategic partners and offtake agreements - ***this is what they want from an advanced battery partner:***



# Enhanced Cell Performance

Commercially sized 10Ah and 20Ah lithium sulfur cells built using automated manufacturing equipment on our Phase 3 line.

- GEN3 semi-solid-state cell chemistry
- Cell performance and cycle testing currently underway
- Currently finalising the improved performance parameters
- Our GEN3 technology has passed both civilian and US Military nail penetration tests

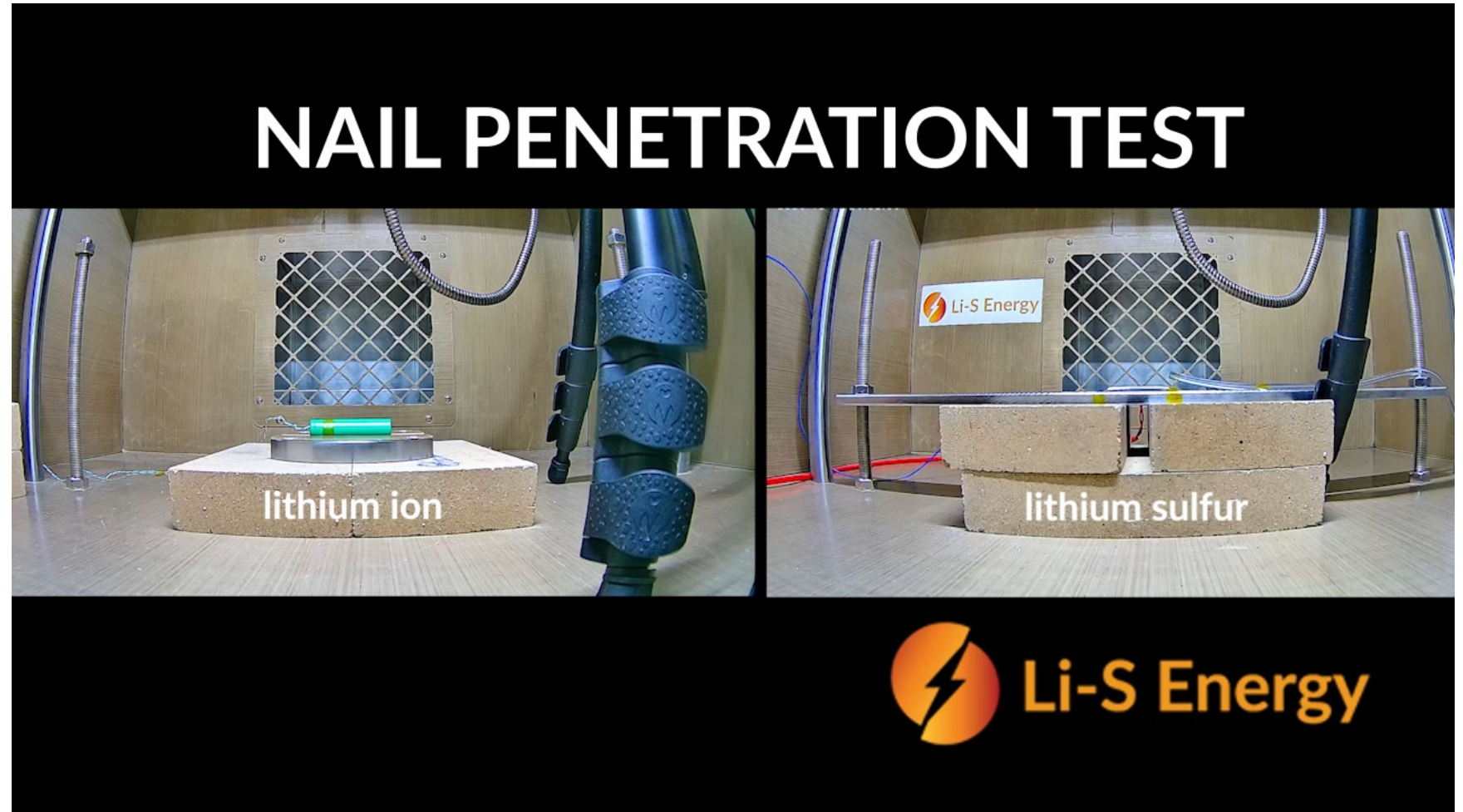




# Nail Penetration Safety Test

Video showing nail penetration on Li-S Energy 2.5Ah multi-layer GEN3 lithium sulfur cell, alongside a comparable lithium-ion cell from an internationally recognised manufacturer (2.5Ah 21700 25R cylindrical LCO cell)

Use this QR code or [click here](#) to see the video.







## Phase 3 : 2MWh production line



Watch on YouTube







# Phase 3: 2MWh cell Production Facility

- ✓ among the most advanced in the industry.
- ✓ 2 production lines – large format and small format cells for different industry applications

## Transformative Impact

- empowers our team to innovate at pace
- rapidly iterate cell design, material optimisation and production processes at scale
- Lock in unique manufacturing IP
- Deliver high quality full-size cells to Partners
- Enhance Partner confidence that we are serious about delivering commercial cells they can rely on for the future



Phase 3 facility is the largest pouch cell production plant in Australia

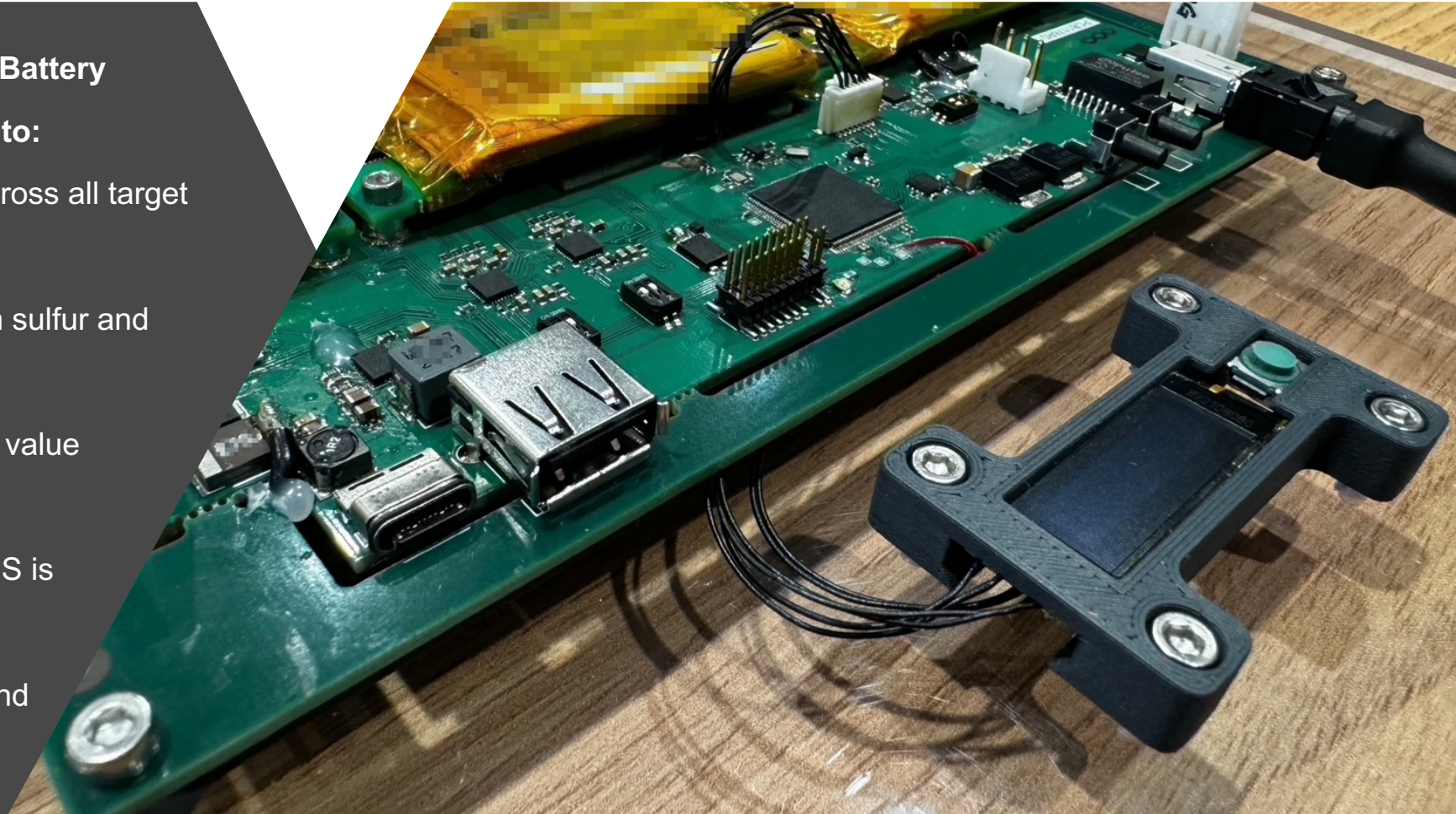


# Intelligent Battery Management System



We have developed prototype intelligent Battery Management System (BMS) to enable us to:

- Deliver battery packs, not just cells, across all target markets.
- AI integrated to manage unique lithium sulfur and lithium metal cell chemistries.
- Intelligent BMS IP enhances company value proposition.
- Partner on-boarding more rapid as BMS is already built.
- Increases speed of partner adoption and pathway to volume sales.





# Government funded Projects

- Dawn-til-Dusk Drone Program
  - Currently integrating our cells and intelligent BMS into a long endurance uncrewed air vehicle (UAV)
  - Target markets mapping, surveillance, agriculture, security, defence
  - Awarded \$1.35M EATP Grant for development
  - Partners” V-TOL Aerospace & Halocell
- Lithium metal foil production line
  - Australia’s first sovereign manufacturing capability
  - Funded by IGP Grant of \$1.76M
  - Eliminates poor quality foil and reduces our cost per cell
  - Global revenue expected from high quality foil and laminate sales



# Official Opening:

On August 9 2024,  
the Hon. Ed Husic  
MP, Minister for  
Industry, formally  
opened our Phase 3,  
2MWh automated  
pouch cell production  
facility.



Watch on YouTube





# Thank you

*For further information contact:*

**Dr Lee Finniear**  
CEO



[l.finniear@lis.energy](mailto:l.finniear@lis.energy)



+ 61 402 040 939

