

Established in 2019, Li-S Energy is a world-leading Australian company possesses sovereign manufacturing capabilities for Lithium-Sulfur and Lithium-Metal battery cells. Our innovative approach extends cycle life through the use of patented Boron Nitride Nanotube (BNNT) and Li-nanomesh nano-composite materials in cell construction.



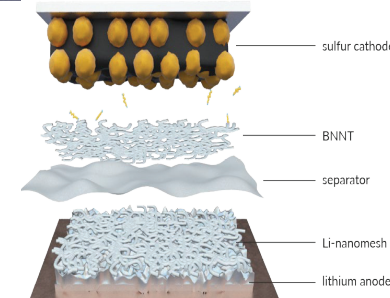
## CAPABILITIES

Lithium sulfur & Lithium Metal cells:

- 456Wh/kg gravimetric energy density after formation cycling  
> 540Wh/l volumetric energy density
- TRL 6
- 2MWh cell manufacturing capacity – largest in AUS
- In house Test capability
  - Nail penetration & crush, Drop, Short circuit & overcharge, Temperature & high altitude, Vibration
  - Advanced cell cyclers able to simulate cell loadings during specific mission profiles
  - Automated systems for real-time test data harvesting & production data integration, enabling AI based performance analysis.

## DISCRIMINATORS

- Lithium sulfur and lithium metal battery cells – Twice the Energy Density c/w incumbent Lithium-Ion cells
- Unique patented technology to substantially increase the cycle life of lithium sulfur and lithium metal batteries
- 100% Depth of Discharge
- Ability to maintain operational readiness 100% charge capacity
- Cleaner, greener materials with no nickel, cobalt or manganese
- Easier and more carbon-friendly recycling



## KEY MARKET / USE CASES

### Military Drones

- Reduced Weight
- Longer time on target
- Increased Range
- Increased Payload

### UAVs

Lighter weight extends flight duration, supports higher payloads and improves operations efficiency in remote missions, ideal for:

- Surveillance
- Cargo delivery
- Agricultural monitoring
- Disaster relief

### Land & Marine

Lightweight, high-energy-density batteries enable extended mission duration and reduced weight to power support systems for tactical vehicles (e.g., light armored vehicles, unmanned ground vehicles, unmanned marine vehicles).

## CERTIFICATIONS

- BMS/QMS - ISO9001 in progress
- Testing underway to MIL-PRF-32383/4X, UN38.3, UL2271 and UL2580
- MIL-PRF-32383/4X nail penetration testing passed.

## PARTNERS



**GREATER CAPACITY**



**LIGHTER WEIGHT**



**CLEANER & GREENER**

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