



# HyLiST

Hybrid Lithium Metal-based Scalable Solid-State Battery Manufacturing

## What is HyLiST?

HyLiST is a cutting-edge EU-funded initiative leading the development of next-generation solid-state lithium-ion batteries (SSBs). We're designing high-performance, safe, and eco-friendly batteries for electric vehicles and aeronautics, based on:



Cobalt-free LNMO cathodes



Hybrid solid polymer electrolytes



Lithium metal anodes

## OUR GOALS

Develop advanced battery materials

Optimise interfaces for better performance and safety

Scale up to 5Ah solid-state prototypes

Reduce costs and energy use in production

Enable full recyclability and EU-compliant sustainability

Achieve superior energy density and fast charging

## THREE PILLARS OF INNOVATION

I. Advanced Components & Manufacturing

II. Interface Engineering & Performance

III. Digitalisation, Recycling & Sustainability



## IMPACT AT A GLANCE

### TECHNOLOGICAL

Safer, faster, longer-lasting batteries

### ENVIRONMENTAL

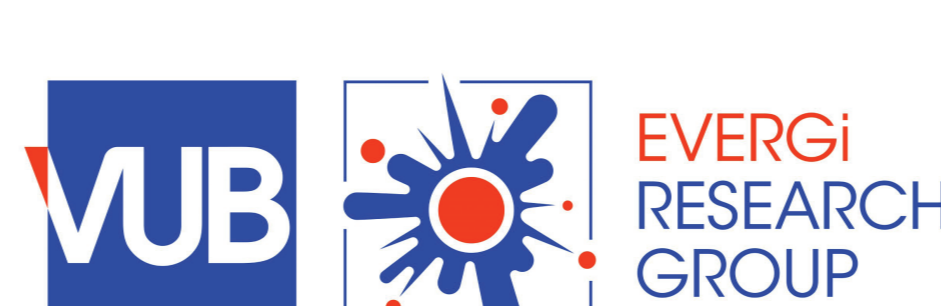
Reduced CO<sub>2</sub>, greener processes & recycling

### ECONOMIC

Cost-efficient EU-based battery production

### GEOPOLITICAL

Enhancing EU autonomy in energy storage



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