# HighMag

High-energy, low-cost and scalable generation 5 magnesium-based batteries for mobility applications and beyond



Follow us on

in linkedin.com/company/highmag-project

youtube.com/@highmag-project

zenodo.org/communities/highmag-project/records

### **The Challenge**

Lithium-ion batteries face growing issues: cost, raw materials, recycling, and safety.

### **▶** The Magnesium Solution

HighMag is developing **5th Generation Rechargeable Magnesium Batteries (RMBs).** 

### Why Magnesium?

Abundant High Energy
& Affordable Density
Plentiful, More power,
lower cost. less space.

**▶** HighMag's Innovations

New Battery Chemistries

Advanced
MagnesiumSulphur and
Magnesium Metal
systems.

### Sustainable Components

Developing
PFAS-free
electrolytes and
novel anodes.

# Safety A more secure

**Enhanced** 

battery technology.

### **Truly Sustainable**

Built on Safe and Sustainable by Design (SSbD) principles.

# Manufacturing Ready

Designed for compatibility with existing production lines.

## Advancing Technology

TRL 2 to TRL 4 for real-world application.

### **The HighMag Consortium**

A powerful collaboration of leading European research and industry partners.





























