



Framework

Climate change is the biggest challenge facing our world today. Europe is committed to achieving a climate-neutral society by 2050



Making Europe climate neutral by 2050

- + Economic Growth Decoupled from Resource Use
- + Protecting, Conserving and Enhancing the EU's Natural Capital
- + Promoting Sustainable and Inclusive Growth



Reduce greenhouse gas emissions by at least 55% by 2030

- + Strengthening the EU Emissions Trading System (ETS)
- + Increasing the Use of Renewable Energy
- + Implementing Carbon Pricing

REPowerEU

Rapidly reduce the EU's dependence on fossil fuels

- + Diversifying Energy Supplies
- + Boosting Renewable Energy
- + Increasing Energy Efficiency



Batteries allow us to store energy when it's available and use it when it is needed





Critical raw materials (CRMA)

In the case of lithium, demand in the EU is expected to increase twelvefold by 2030 and twenty-one times by 2050.

Europe relies heavily on imports, often from a single third country, and recent crises have highlighted the EU's strategic vulnerabilities.







Goals by 2030:

- > 10% of the EU's annual consumption of extraction
- > 40% of the EU's annual consumption of processing
- > 25% of the EU's annual consumption of recycling
- < 65% of the EU's annual consumption comes from a single third country

Simplifying permitting procedures for critical raw materials projects in the EU

Support for access to **EU funding** (EIB, programmes, etc.)



Framework







Consumer electronics

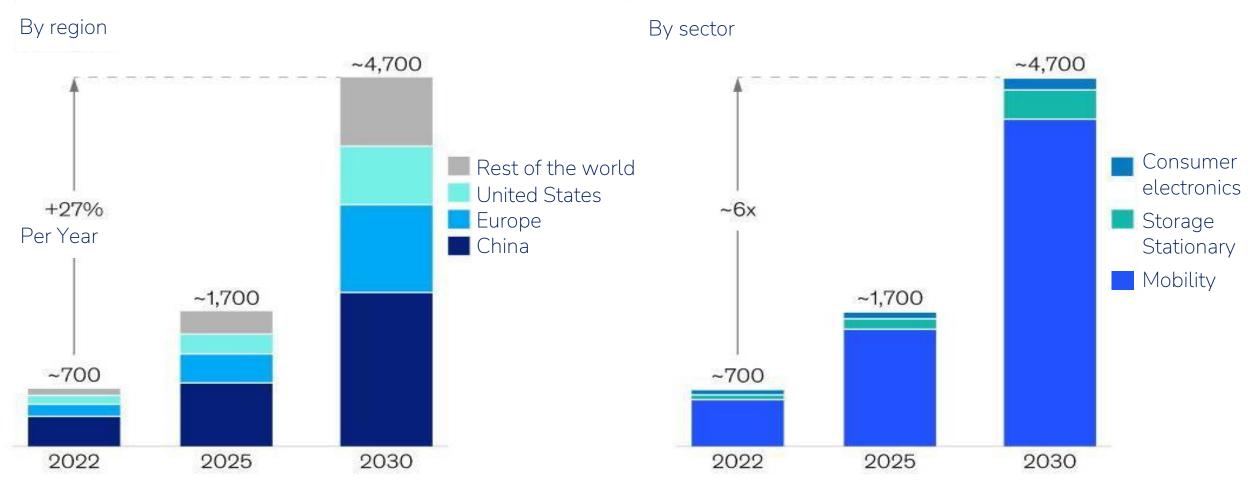




Medical devices

Demand for lithium-ion batteries is expected to grow by around 33% a year to reach around 4,700 GWh by 2030.

Global demand for lithium-ion battery cells GWh



¹ including passenger cars, commercial vehicles, two- and three-wheeled vehicles, off-road vehicles and aviation.

Source: McKinsey Battery Insights

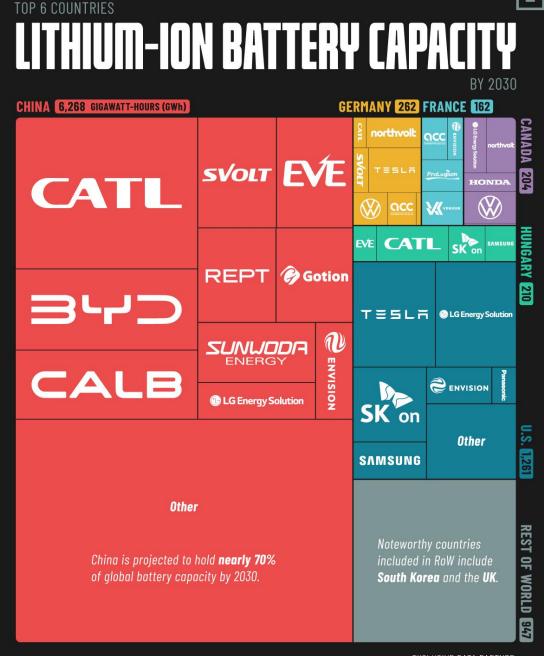


Battery manufacturing in the world

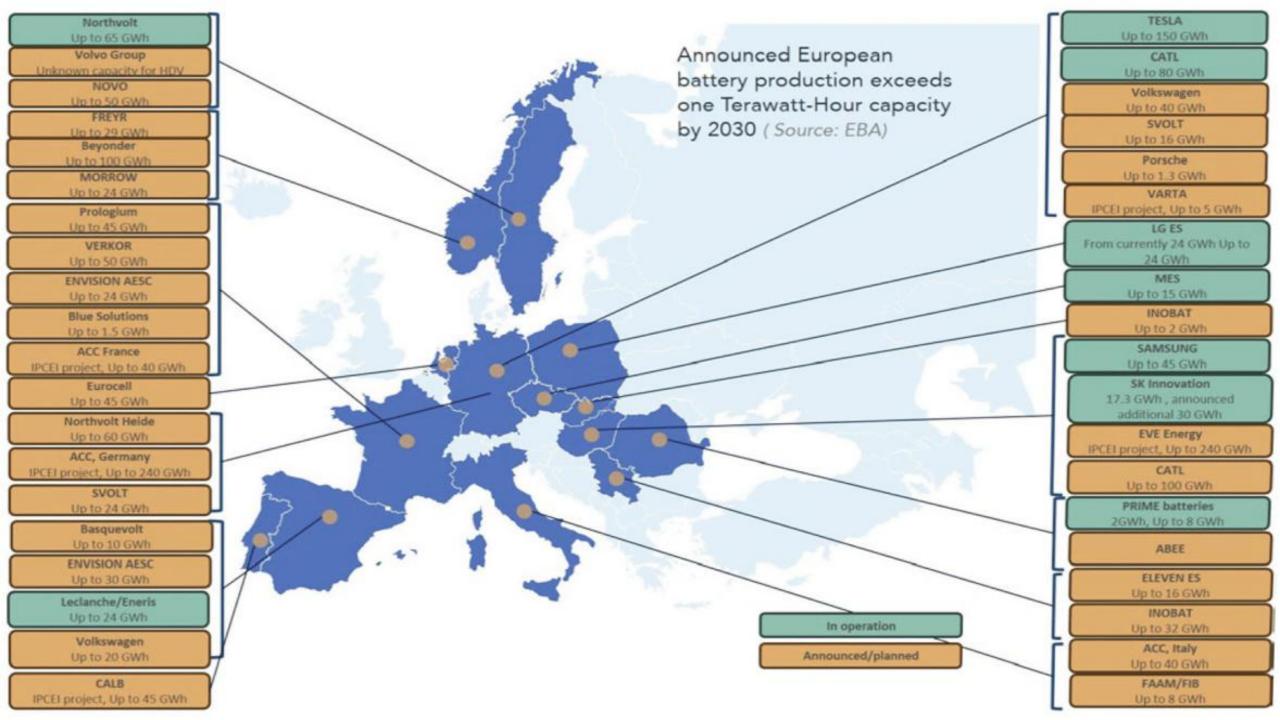
China is projected to remain the dominant force in lithiumion battery production by 2030, claiming nearly 70% of global capacity. This translates to an astounding 6.268 gigawatt-hours (GWh)



7 of the top 10 battery manufacturing companies are based in china.













RAW MATERIAL EXTRACTION

Portugal is one of the few countries in the world with the possibility of having a complete battery value chain.





Distribution

- End Use (18)
- I&D&I (15)
- Pattery Pack (9)
- Raw Material Extraction (5)

260 KM

- Recycling (5)
- Refinery (5)
- Pattery Cell (4)
- Associação (2)
- Training (1)





SAVANNAH



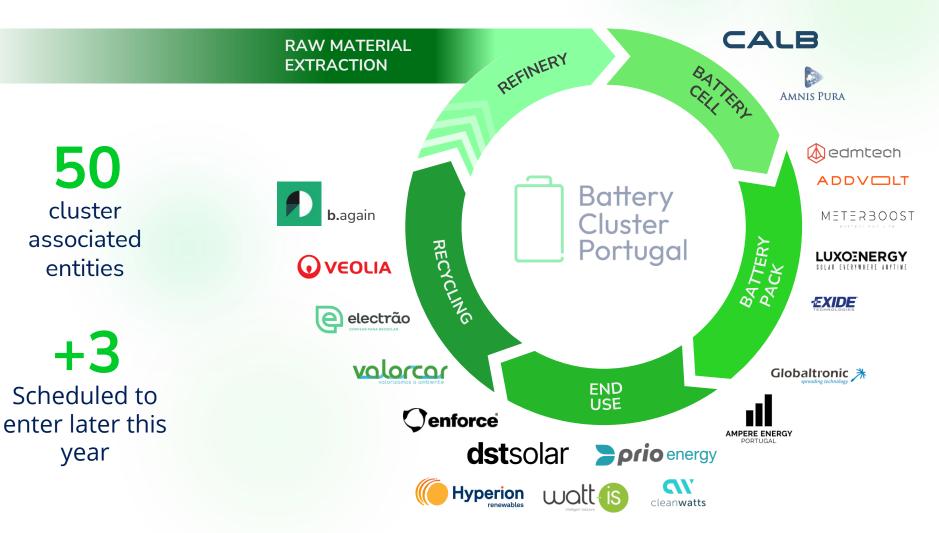
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INNOVATION ECOSYSTEM











































Opportunity Brief: HORIZON-CL5-2025-02-D2-06

Title: Fostering the European Battery Ecosystem by Providing Accurate and Up-to-date Information and Stimulating Excellence in the European Battery R&I Community

Call Type: Coordination and Support Action (CSA)

Estimated EU Contribution per Project: ~€3M

Deadline: [to be confirmed based on F&T Portal]

Objectives and Expected Outcomes:

This action aims to **strengthen the European battery ecosystem** through the establishment of a **centralised knowledge and coordination platform** that informs strategic decisions and supports excellence across the EU battery value chain.

- A publicly accessible information observatory
- A robust knowledge base
- An agile R&I strategy
- Maximised impact of Batt4EU Partnership
- Increased excellence and coordination in battery R&I throughout Europe



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