

Novel approaches towards next-generation battery concepts, leveraging the enabling role of innovative advanced materials (BATT4EU and IAM4EU Partnerships)

Horizon Europe

CODE	SCOPE
HORIZON-CL5-2027-04-Two-Stage-D2-07	International
LOCATION	STATUS
Europe	Pending
PROGRAM	CURATED BY
Horizon Europe	Marlene Faria
GENERATED AT	
September 25, 2026	

Financial Details

SUPPORT TYPE	MAXIMUM FUNDING RATE
Non-Refundable	100%
BUDGET	ELIGIBLE PROJECT VALUE
48M€	Up to 4.8M€

Dates & Deadlines

PUBLICATION DATE

September 25, 2026

OPENING DATE

December 15, 2026

Application Phases

- Fase 1: April 12, 2027 at 03:00 PM
- Fase 2: October 7, 2027 at 03:00 PM

Objectives

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This incentive aims to foster the development and validation of innovative battery concepts, with the ultimate goal of enhancing European competitiveness in advanced energy materials and battery technologies. Eligible applicants include consortia from research organizations, companies, and industry stakeholders active in battery development, electric mobility, aviation, and stationary energy storage. The main objectives are to develop low-cost, high-performance, and durable batteries suited for a wide range of applications, such as electric vehicles, aviation, maritime, grid storage, and energy-intensive industries, while integrating sustainability and Safe and Sustainable by Design principles.

Funding

Funding is provided through Horizon Europe Research and Innovation Actions (RIA) under a lump sum scheme. The topic has an indicative total budget of €48 million, including a contribution from the Digital, Industry and Space programme. The European Commission expects to fund approximately 10 projects, corresponding to an indicative EU contribution of around €4.8 million per project. EU co-funding can cover up to 100% of eligible costs, in accordance with Horizon Europe funding rules. Projects should address one of the three thematic areas defined in the call and meet ambitious performance and cost targets, including battery component costs below €35/kWh for low-cost mobility solutions (Area A) and system-level costs below €50/kWh for stationary grid storage applications (Area C).

Eligible Expenses

- Personnel Costs
- Travel costs
- Equipment costs
- Other goods, works and services costs
- Subcontracting
- Indirect Costs

Eligibility

Eligible Sectors

- Industry
- Energy & Environment
- Mobility & Transport

- Aerospace & Defense

Company Typologies

- Micro
- Sme
- Small Mid-Cap
- Mid-Cap
- Large
- Non-business entities of the R&I system (ENESII)
- Private non-profit entities
- Public entities

Application Mode

- Consortium / Copromotion

Action Types

- Research and development of advanced battery materials
- Benchmarking against state-of-the-art performance
- Integration and system-level engineering
- Industrial scalability assessment
- Implementation of sustainability principles
- Safety and recyclability assessment

EU Programme Details

CALL ID

HORIZON-CL5-2027-04-Two-Stage-D2-07

CLUSTER

Cluster 5: Climate, Energy and Mobility

DESTINATION

Destination 2: Cross-sectoral solutions for the climate transition

SUBMISSION MODE

Two-stage

EU CONTRIBUTION

around 4,800,000 EUR per project

EXPECTED PROJECTS

10

FUNDING RATE RULE

Up to 100% of eligible costs for Research and Innovation Actions (RIA)

Official Links

Official Regulation:

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/HORIZON-CL5-2027-04-Two-Stage-D2-07?order=DESC&pageNumber=1&pageSize=50&sortBy=startDate&keywords=HORIZON-CL5-2027-04-Two-Stage-D2-07&isExactMatch=true&status=31094501,31094502,31094503>

Grantavia page: <https://grantavia.com/en/incentives/novel-approaches-towards-next-generation-battery-concepts-leveraging-the-enabling-role-of-innovative-advanced-materials-batt4eu-and-iam4eu-partnerships>

Schedule a meeting: <https://calendly.com/sandra-cardoso-epsa/reuniao>