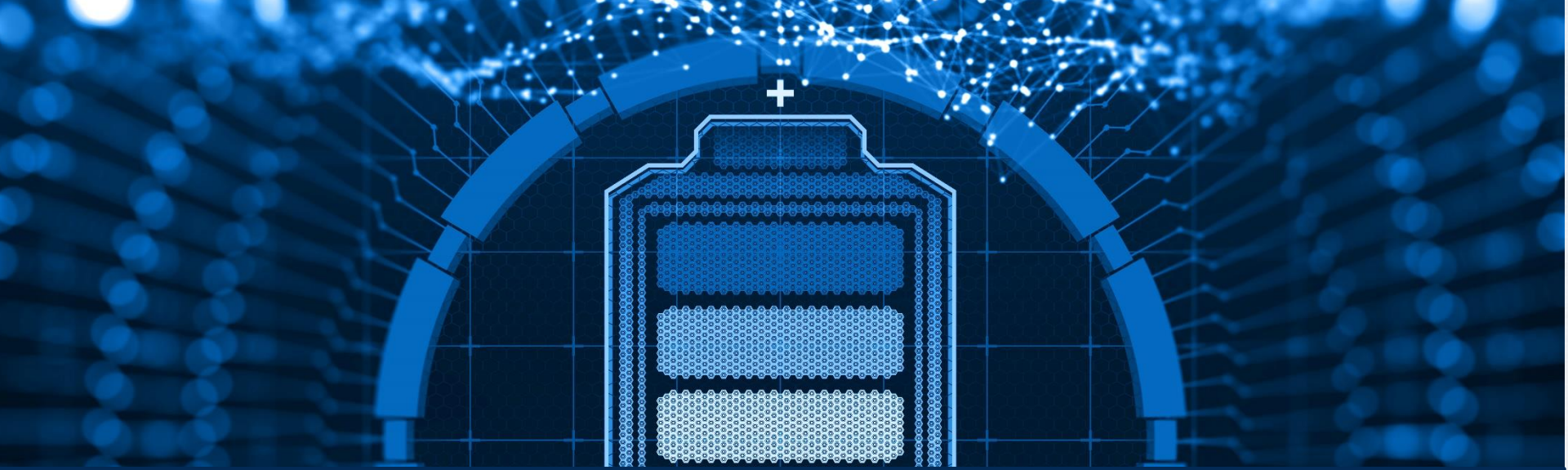


BATT4EU
Batteries European Partnership

BEPA
Batteries European Partnership Association

Contributing to
The European Batteries R&I Community

Work Programme ’25
Matchmaking

Meet the right people in the European battery R&I community

2025

Welcome | Agenda

TIME	ITEM	
09:30-09:35	**Welcoming words** *Wouter IJzermans,* Executive Director, BEPA	
09:35-10:05	**A short introduction of the likely topics** *Bozorg Khanbaei*, Policy Officer, BEPA	
10:05-10:15	***Introduction of the B2Match platform*** *Virginia Petetti,* Communications Officer, BEPA	
10:15-10:50	**Breakout Room 1** **Call 2:** Cost-effective next-generation batteries for long-duration stationary storage	**Breakout Room 2** **Call 3:** Sustainable processing and refining of raw materials to produce battery-grade Li-ion battery materials
10:50-11:00	***Refreshment Break***	

Welcome | Agenda

TIME	ITEM	
11:00-11:45	**Breakout Room 1** **Call 6:** Fostering the European Battery Ecosystem by Providing Accurate and Up-to-date Information and Stimulating Excellence in the European Battery R&I Community.	**Breakout Room 2** **Call 1:** Development of Sustainable and Design-to-Cost Batteries with (Energy-)Efficient Manufacturing Processes and Based on Advanced and Safer Materials
11:45-12:30	**Breakout Room 1** **Call 4:** Integrating advanced material, cell design and manufacturing development for high-performance batteries aimed at mobility	**Breakout Room 2** **Call 5:** Accelerated multi-physical and virtual testing for battery aging, reliability, and safety evaluation

Introductory Words

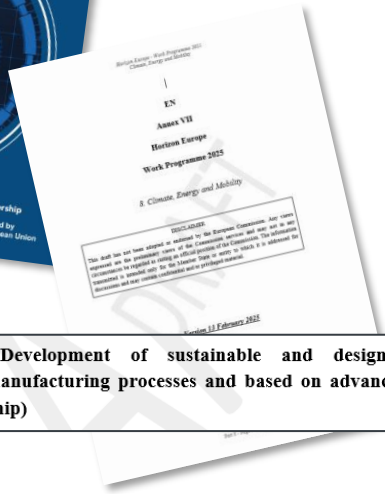
- 925 million EUR budget
- Policy goals
- Multiple Directorates

European Commission

BATT4EU Batteries European Partnership

BEPA Batteries European Partnership Association

- 250 members
- Battery R&I expertise
- 925 million in-kind activities



HORIZON-CL5-2026-01-D2-01: Development of sustainable and design-to-cost batteries with (energy-)efficient manufacturing processes and based on advanced and safer materials (Batt4EU Partnership)

Introductory Words

Being a member of BEPA enables you to take part in the following activities:

Join Working Groups

Match-making and networking events

Early access to information on industry roadmap and ongoing battery projects

Thematic workshops and joint events with stakeholders from the whole battery community

Introductory Words

It’s getting harder to get funding…

	2021	2022	2023	2024
Proposals submitted	60	91	98	139
Above-threshold proposals	43	70	59	77
Projects funded	22	26	18	13
Success rate	37%	29%	18%	9%
Funding threshold	11,66667	12,4	13	13,66667

Introductory Words

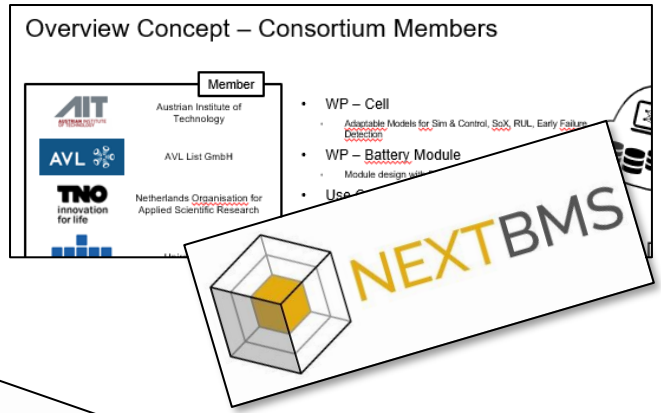
Results from the past…

FULI-RESPECT
Flexible and Universal Li-Ion batteries REcycling Solution for a comPetitive, circular, and sustainable European battery manufaCTuring industry

HORIZON-CL5-2021-D2-01-06: Sustainable, safe and efficient recycling processes

BEPA Match-making event
FRIDAY, 09 JULY 2021

Respect



NoVOC

European Li-ion battery manufacturing for electric vehicles with No VOC emission (NoVOC)

WP1 Raw Materials manufacturing

Innovation 1.

Introductory Words

Don’t forget about the Joint Research Centre…

- JRC as **beneficiary requesting zero funding** – collaboration via *acceding grant agreement*
- **JRC** as **associated partner** – *collaboration via signing the consortium agreement (not acceding grant agreement)*

- JRC as **non-beneficiary** – in situations when the JRC is not mentioned in the topic at all (collaboration, e.g., via signing a collaboration agreement, or membership in the scientific advisory board, etc.)

Introductory Words

Don’t forget about the Joint Research Centre…

Indicative budget	The total indicative budget for the topic is EUR 6.00 million.
Type of Action	Research and Innovation Actions
Eligibility conditions	The conditions are described in General Annex B. The following exceptions apply: **The Joint Research Centre (JRC) may participate as member of the consortium selected for funding.** The following additional eligibility criteria apply: The proposals must use the multi-actor approach. See definition

Identifier for considering JRC as a beneficiary (requesting zero funding)

Under the topic’s eligibility conditions there is no standard reference on the JRC, but the topic’s scope mentions JRC

Identifier for considering JRC as associated partner (only)

A short introduction of the likely topics

2025 BATT4EU Work Programme at a glance

6 calls under BATT4EU:

5 calls spread over the value chain+ **1** Coordination & Support Action (CSA)

107 million EUR

14 projects expected

A short introduction of the likely topics

HORIZON-CL5-2026-01-D2-01: Development of sustainable and design-to-cost batteries with (energy-)efficient manufacturing processes and based on advanced and safer materials

Total budget: **24 m€**

Expected EU contribution per project: **8 m€**

Type of Action: **Innovation Action**

TRL: **6 or 7 (depending on chemistry)**

In few words: **Development of next generation low-cost batteries, specifically LMFP, HLM and Sodium-ion for mobility**

Expected outcomes (summarised):

- **Development of next generation low-cost batteries for improving the affordability of electric mobility, enhancing the competitiveness of the European battery value chain, while lowering the share of Critical Raw Materials (CRM)**
- **Improved adaptation and flexibility of advanced and sustainable production processes in European battery manufacturing;**
- **Improved adaptation/flexibility of design-to-circularity strategies.**

A short introduction of the likely topics

HORIZON-CL5-2025-01-Two-Stage-D2-02: Cost-effective next-generation batteries for long-duration stationary storage

2 STEP PROCEDURE!

Total budget: **15 m€**

Expected EU contribution per project: **5 m€**

Type of Action: **Research and Innovation Action**

TRL: **4-5**

In few words: **Development of materials for long-duration (>10 hours) energy storage that are sustainable, safe and are potentially manufactured at large scale.**

Expected outcomes (summarised):

- **Advanced battery materials aiming at storage duration from 10 hours to seasonal storage are developed**
- **Minimised use of Critical Raw Materials (CRM);**
- **Development of viable alternatives to the current state of the art for battery technologies and to other seasonal storage devices**
- **Improved longevity of energy storage systems;**
- **Battery technologies with minimal required auxiliary services, storage in a wide range of SOCs, and minimal voltage slippage.**

A short introduction of the likely topics

HORIZON-CL5-2025-02-D2-03: Sustainable processing and refining of raw materials to produce battery grade Li-ion battery materials

Total budget: **20 m€**

Expected EU contribution per project: **10 m€**

Type of Action: **Innovation Action**

TRL: **6-7**

In few words: **Demo production of battery-grade metals and precursors and/or electrode active materials (lithium, cobalt, graphite, nickel, manganese and phosphorus).**

LUMP SUM

Expected outcomes (summarised):

- **Increased autonomy for the EU in the battery raw materials sector;**
- **Increased processing and refining capacities of battery raw materials;**
- **Advanced technologies for the processing of primary and secondary raw materials**
- **Sustainability, efficiency, and resilience of the European Li-ion battery sector**
- **Circular battery value chains within EU;**
- **Improved societal acceptance of processing plants.**

A short introduction of the likely topics

HORIZON-CL5-2026-01-D2-04: Integrating advanced materials, cell design and manufacturing development for high-performance batteries aimed at mobility

Total budget: **30 m€**

Expected EU contribution per project: **10 m€**

Type of Action: **Research and Innovation Action**

TRL: **5**

In few words: **Upgrading manufacturing, and cell and material development to ease the transition to quasi-solid and all-solid-state lithium-ion batteries.**

Expected outcomes (summarised):

- **European battery cell manufacturers are supported in their transition from incumbent (Gen.3) liquid electrolyte lithium-ion battery to high performance (solid-state) lithium-ion batteries;**
- **Increased diversity of chemistries, cell design (application-oriented) of the existing production lines;**
- **Scaled production for premium products is targeted in the medium-term and large-scale production is targeted in the longer term.**

A short introduction of the likely topics

HORIZON-CL5-2026-01-D2-05: Accelerated multi-physical and virtual testing for battery aging, reliability, and safety evaluation

Total budget: **15 m€**

Expected EU contribution per project: **7.5 m€**

Type of Action: **Innovation Action**

TRL: **7**

In few words: **Reduction of development costs and time to market of new battery systems by accelerated multi-physical and virtual testing.**

Expected outcomes (summarised):

- **Shortened development time of battery cells and battery systems by minimising the experimental testing effort;**
- **Increased battery reliability and safety through better understanding of ageing, and safety-relevant mechanisms;**
- **Acceleration of a more reliable verification and validation of new solutions**
- **Standardised battery system testing & validation approaches focussing on the combination of physical and virtual test methodologies.**

A short introduction of the likely topics

HORIZON-CL5-2026-01-D2-06: Fostering the European battery ecosystem by providing accurate and up-to-date information and stimulating excellence in the European battery R&I community

Total budget: **3 m€**

Expected EU contribution per project: **3 m€**

Type of Action: **Coordination and Support Action**

TRL: **N/A**

In few words: **Providing accurate data to inform R&I policy in Europe and building an excellent battery R&I ecosystem.**

Expected outcomes (summarised):

- **A solid basis of information for R&I stakeholders and supporting decision making;**
- **Updating priorities for the European battery value chain based on global trends;**
- **Maximisation of the scientific, technological, economic, and societal impact of BATT4EU;**
- **A well-coordinated, best-in-the-world, battery research community is fostered in Europe,**
- **Excellence in battery research is spread across Europe.**

A short introduction of the likely topics

Outside the BATT4EU Partnership -> Cluster 5

Code	Name	Type	Total budget	Budget per project
HORIZON-CL5-2025-D5-10	Demonstration of Battery Energy storage systems in Existing and New Vessels via Novel Energy Storage and Ship Design Concepts (ZEWT Partnership)	IA	15	7.50
HORIZON-CL5-2025-04-D5-03	Safe post-crash management of road Light Duty Battery Electric Vehicles (BEVs) (2ZERO Partnership)	IA	5	5
HORIZON-CL5-2025-04-D5-04	Extended lifetime of road Battery Electric Vehicles (BEV) (2ZERO Partnership)	RIA	7	7

A short introduction of the likely topics

Outside the BATT4EU Partnership -> Cluster 4 (Digital, Industry and Space)

Topics on:

- Advanced manufacturing technologies for leadership of EU manufacturers in products for the net-zero industry (MadeInEurope)
- Development of safe and sustainable by design alternatives to PFAS
- AI Foundation models in materials science

Presentation of the BEPA Match-making tool

Book 1:1 meeting and find your project partners until 26 March!

Objective of the platform: provide a place where all battery stakeholders interested to participate in a Battery Horizon Europe 2025 calls can meet to create relevant collaborations.

How to use the platform:

- ❑ **Step 1 Profile:** Fill in all the details in your profile explaining who you are
- ❑ **Step 2 Marketplace**: this area can be filled by participants with the services you provide and the partnerships you are looking for
- ❑ **Step 3 Meetings:** Find relevant collaborators and book meetings

Pitches!

Breakout Room 1
Call 2: Cost-effective next-generation batteries for long-duration stationary storage

Breakout Room 2
Call 3: Sustainable processing and refining of raw materials to produce battery-grade Li-ion battery materials

Refreshment Break!

See you back at 11:00

Pitches!

Breakout Room 1
Call 6: Fostering the European Battery Ecosystem by Providing Accurate and Up-to-date Information and Stimulating Excellence in the European Battery R&I Community.

Breakout Room 2
Call 1: Development of Sustainable and Design-to-Cost Batteries with (Energy-)Efficient Manufacturing Processes and Based on Advanced and Safer Materials

Pitches!

Breakout Room 1
Call 4: Integrating advanced material, cell design and manufacturing development for high-performance batteries aimed at mobility

Breakout Room 2
Call 5: Accelerated multi-physical and virtual testing for battery aging, reliability, and safety evaluation

THANK YOU!

BATT4EU
info@bepassociation.eu

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Batteries European Partnership