



MINISTÈRE
DE L'ENSEIGNEMENT
SUPÉRIEUR
ET DE LA RECHERCHE

*Liberté
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Le programme européen pour la recherche et l'innovation



Appels Cluster 5 : 2023-2024

Solutions transversales pour la transition climatique

Calendrier indicatif

Destination 2 : Une chaîne de valeur européenne des batteries compétitive et durable 2023

| Ouverture | Clôture | Code Appel | Titre Appel | Type | Budget par projet | Nbr attendu de projets | TRL (en fin de projet) |
|------------|------------|---------------------------|---|------|-------------------|------------------------|------------------------|
| 13/12/2022 | 18/04/2023 | HORIZON-CL5-2023-D2-01-01 | Technologies for sustainable, cost-efficient and low carbon footprint downstream processing & production of battery-grade materials (Batt4EU Partnership) | RIA | 7 | 3 | 5 |
| 13/12/2022 | 18/04/2023 | HORIZON-CL5-2023-D2-01-02 | New processes for upcoming recycling feeds (Batt4EU Partnership) | RIA | 5 | 3 | 4 |
| 13/12/2022 | 18/04/2023 | HORIZON-CL5-2023-D2-01-03 | Advanced digital twins for battery cell production lines (Batt4EU Partnership) | RIA | 7 | 2 | 4-5 |
| 13/12/2022 | 18/04/2023 | HORIZON-CL5-2023-D2-01-04 | Battery management system (BMS) and battery system design for stationary energy storage systems (ESS) to improve interoperability and facilitate the integration of second life batteries (Batt4EU Partnership) | IA | 7,5 | 2 | 6-7 |
| 13/12/2022 | 18/04/2023 | HORIZON-CL5-2023-D2-01-05 | Hybrid electric energy storage solutions for grid support and charging infrastructure (Batt4EU Partnership) | IA | 6 | 2 | 7 |
| 04/05/2023 | 05/09/2023 | HORIZON-CL5-2023-D2-02-01 | Advanced materials and cells development enabling large-scale production of Gen4 solid-state batteries for mobility applications (Batt4EU Partnership) | IA | 8 | 3 | 6 |
| 04/05/2023 | 05/09/2023 | HORIZON-CL5-2023-D2-02-02 | New Approaches to Develop Enhanced Safety Materials for Gen 3 Li-Ion Batteries for Mobility Applications (Batt4EU Partnership) | RIA | 5 | 2 | 5 |
| 04/05/2023 | 05/09/2023 | HORIZON-CL5-2023-D2-02-03 | Creating a digital passport to track battery materials, optimize battery performance and life, validate recycling, and promote a new business model based on data sharing (Batt4EU Partnership) | IA | 8 | 1 | 7 |



Destination 2 : Une chaîne de valeur européenne des batteries compétitive et durable 2024

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|------------|------------|---------------------------|--|------|-------------------|------------------------|------------------------|
| 07/12/2023 | 18/04/2024 | HORIZON-CL5-2024-D2-01-01 | Advanced sustainable and safe pre-processing technologies for End-of-Life (EoL) battery recycling (Batt4EU Partnership) | RIA | 7 | 3 | 5 |
| 07/12/2023 | 18/04/2024 | HORIZON-CL5-2024-D2-01-02 | Non-Li Sustainable Batteries with European Supply Chains for Stationary Storage (Batt4EU Partnership) | IA | 7,5 | 3 | 6-7 |
| 07/12/2023 | 18/04/2024 | HORIZON-CL5-2024-D2-01-03 | Development of technical and business solutions to optimise the circularity, resilience, and sustainability of the European battery value chain (Batt4EU Partnership) | RIA | 5 | 1 | 5 |
| 07/05/2024 | 05/09/2024 | HORIZON-CL5-2024-D2-02-01 | Sustainable high-throughput production processes for stable lithium metal anodes for next generation batteries (Batt4EU Partnership) | IA | 8 | 8 | 6-7 |
| 07/05/2024 | 05/09/2024 | HORIZON-CL5-2024-D2-02-02 | Post-Li-ion technologies and relevant manufacturing techniques for mobility applications (Generation 5) (Batt4EU Partnership) | RIA | 5 | 5 | 4 |
| 07/05/2024 | 05/09/2024 | HORIZON-CL5-2024-D2-02-03 | Size & weight reduction of cell and packaging of batteries system, integrating lightweight and functional materials, innovative thermal management and safe and sustainable by design approach (Batt4EU Partnership) | IA | 8 | 8 | 6-7 |
| 07/05/2024 | 05/09/2024 | HORIZON-CL5-2024-D2-02-04 | Accelerated multi-physical and virtual testing for battery aging, reliability and safety evaluation (Batt4EU Partnership) | IA | 7,5 | 7,5 | 6 |

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| 13/12/2022 | 18/04/2023 | HORIZON-CL5-2023-D2-01-06 | Open Pilot Line/Test Bed for hydrogen | IA | 10 | 1 | |
| 13/12/2022 | 18/04/2023 | HORIZON-CL5-2023-D2-01-07 | Support for the deployment of R&I results for climate mitigation. Synergies with the ETS Innovation Fund | CSA | 1 | 4 | |
| 07/12/2023 | 18/04/2024 | HORIZON-CL5-2024-D2-01-04 | Emerging energy technologies for a climate neutral Europe | RIA | 1,5-2,5 | 4-6 | 4 |

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