

CLUSTER 5 "CLIMATE, ENERGY AND MOBILITY" TOPICLISTE

AUSSCHREIBUNGEN 2023/2024

PROJEKTTYPEN: RIA – Research and Innovation Action

IA – Innovation Action

CSA – Coordination and Support Action COFUND – Programme Co-fund Action

Zusätzliche Anforderung: LS – Lump Sum

(Kosten der Projektteilnehmer:innen werden nicht mehr im Rahmen eines Kostenreportings erstattet, sondern durch einen im Vorhinein festgelegten Pauschalbetrag, einer sog. "Lump Sum", abgegolten)

Hinweis

- Diese Übersicht stellt eine Orientierungshilfe dar. Somit sollte bei der für Jahresende angepeilten offiziellen Arbeitsprogramm-Veröffentlichung (inkl. Start bestimmter Calls) genügend Zeit für eine qualifizierte Projektvorbereitung im Konsortium zur Verfügung stehen.
- Das zugrundeliegende Dokument ist EC-intern noch in formaler/rechtlicher Endabstimmung bzw. Überprüfung.
 Daher sind Verschiebungen/Streichungen unter den Topics etwa aus budgetären Gründen, Änderungen im Instrumentenformat oder bei den Callfristen möglich.
- Viele Delegationen haben sich nachdrücklich für eine vollständige informelle Vorveröffentlichung seitens der EC eingesetzt. Ob dem entsprochen werden kann, sollte sich spätestens im Oktober herausstellen. Das gesamte Arbeitsprogramm selbst mit den Details aller Topics unterliegt daher bis dahin Vertraulichkeitsverpflichtungen und darf nicht herausgegeben werden.



INHALTSVERZEICHNIS

Destination 1 – Climate sciences and responses for the transformation towards climate neutrality
Call - Climate sciences and responses (HORIZON-CL5-2023-D1-01) Deadline: 18.4.2023
Call - Climate sciences and responses (HORIZON-CL5-2023-D1-02) Deadline: 18.4.2023
Call - Climate sciences and responses (HORIZON-CL5-2024-D1-01) Deadline: 5.3.2024
Destination 2 – Cross-sectoral solutions for the climate transition
Call - Cross-sectoral solutions for the climate transition (HORIZON-CL5-2023-D2-01) Deadline: 18.4.2023
Call - Cross-sectoral solutions for the climate transition (HORIZON-CL5-2023-D2-02) Deadline: 5.9.2023
Call - Cross-sectoral solutions for the climate transition (HORIZON-CL5-2024-D2-01) Deadline: 18.4.2024
Call - Cross-sectoral solutions for the climate transition (HORIZON-CL5-2024-D2-02) Deadline 5.9.2024
Destination 3 – Sustainable, secure and competitive energy supply
Call - Sustainable, secure and competitive energy supply (HORIZON-CL5-2023-D3-01) Deadline: 30.3.2023
Call - Sustainable, secure and competitive energy supply (HORIZON-CL5-2023-D3-02) Deadline: 5.9.2023
Call - Sustainable, secure and competitive energy supply (HORIZON-CL5-2023-D3-03) Deadline: 10.10.2023
Call - Sustainable, secure and competitive energy supply (HORIZON-CL5-2024-D3-01) Deadline: 16.1.2024
Call - Sustainable, secure and competitive energy supply (HORIZON-CL5-2024-D3-02) Deadline: 5.9.2024
Destination 4 – Efficient, sustainable and inclusive energy use1
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Call - Efficient, sustainable and inclusive energy use (HORIZON-CL5-2023-D4-01) Deadline: 20.4.20231
Call - Efficient, sustainable and inclusive energy use (HORIZON-CL5-2023-D4-01) Deadline: 20.4.202310 Call - Efficient, sustainable and inclusive energy use (HORIZON-CL5-2023-D4-02) Deadline: 5.9.202310
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Call - Efficient, sustainable and inclusive energy use (HORIZON-CL5-2023-D4-01) Deadline: 20.4.2023
Call - Efficient, sustainable and inclusive energy use (HORIZON-CL5-2023-D4-01) Deadline: 20.4.2023
Call - Efficient, sustainable and inclusive energy use (HORIZON-CL5-2023-D4-01) Deadline: 20.4.2023
Call - Efficient, sustainable and inclusive energy use (HORIZON-CL5-2023-D4-01) Deadline: 20.4.2023



DESTINATION 1 – CLIMATE SCIENCES AND RESPONSES FOR THE TRANSFORMATION TOWARDS CLIMATE NEUTRALITY

Call - Climate sciences and responses (HORIZON-CL5-2023-D1-01) Deadline: 18.4.2023

Earth system science

- HORIZON-CL5-2023-D1-01-01: Further climate knowledge through advanced science and technologies
 for analysing Earth observation and Earth system model data (RIA, LS), expected EU contribution per
 project around 8 million Euro, for 2 projects
- HORIZON-CL5-2023-D1-01-02: Climate-related tipping points (RIA, LS), expected EU contribution per project around 7 million Euro, for 2 projects
- HORIZON-CL5-2023-D1-01-03: Climate impacts of a hydrogen economy (RIA), expected EU contribution per project around 4 million Euro, for 2 projects
- HORIZON-CL5-2023-D1-01-04: Improved knowledge in cloud-aerosol interaction (RIA, LS), expected EU contribution per project around 8 million Euro, for 2 projects

Climate change mitigation, pathways to climate neutrality

- HORIZON-CL5-2023-D1-01-05: Science for successful, high-integrity voluntary climate initiatives (RIA),
 expected EU contribution per project around 5.50 million Euro, for 1 project
- HORIZON-CL5-2023-D1-01-06: Broadening the range of policy options in transition pathway analysis (RIA), expected EU contribution per project around 5 million Euro, for 2 projects

Climate change impacts and adaptation

 HORIZON-CL5-2023-D1-01-07: Modelling for local resilience - Developments in support of local adaptation assessments and plans - (RIA), expected EU contribution per project around 12 million Euro, for 1 project

Social science, citizen science and behavioural science for climate action

- HORIZON-CL5-2023-D1-01-08: Solar Radiation Modification: governance of research (CSA, LS), expected EU contribution per project around 3 million Euro, for 1 project
- HORIZON-CL5-2023-D1-01-09: Behavioural change and governance for systemic transformations towards climate resilience - (RIA), expected EU contribution per project around 4 million Euro, for 2 projects
- HORIZON-CL5-2023-D1-01-10: Improving the evidence base regarding the impact of sustainability and climate change education and related learning outcomes - (RIA), expected EU contribution per project around 5 million Euro, for 1 project

International cooperation

HORIZON-CL5-2023-D1-01-11: Needs-based adaptation to climate change in Africa - (RIA), expected EU contribution per project around 5 million Euro, for 2 projects

Call - Climate sciences and responses (HORIZON-CL5-2023-D1-02) Deadline: 18.4.2023

International cooperation

- HORIZON-CL5-2023-D1-02-01: EU-China international cooperation on data and model development for
 pathways to carbon neutrality: focusing on decarbonisation, energy efficiency and socio-economic
 implications of the transition (RIA), expected EU contribution per project around 2.50 million Euro, for 2
 projects
- HORIZON-CL5-2023-D1-02-02: EU-China international cooperation on blue carbon (RIA), expected EU contribution per project around 5 million Euro, for 1 project



Call - Climate sciences and responses (HORIZON-CL5-2024-D1-01) Deadline: 5.3.2024

Earth system science

- HORIZON-CL5-2024-D1-01-01: Enhanced quantification and understanding of natural and anthropogenic methane emissions and sinks - (RIA), expected EU contribution per project around 15 million Euro, for 1 project
- HORIZON-CL5-2024-D1-01-02: Inland ice, including snow cover, glaciers, ice sheets and permafrost, and their interaction with climate change - (RIA), expected EU contribution per project 6 to 7.50 million Euro, for 3 projects
- HORIZON-CL5-2024-D1-01-03: Paleoclimate science for a better understanding of the short- to longterm evolution of the Earth system - (RIA, LS), expected EU contribution per project around 15 million Euro, for 1 project

Climate change mitigation, pathways to climate neutrality

- HORIZON-CL5-2024-D1-01-04: Improved toolbox for evaluating the climate and environmental impacts
 of trade policies (RIA), expected EU contribution per project around 6 million Euro, for 2 projects
- HORIZON-CL5-2024-D1-01-05: Next generation low-emission, climate-resilient pathways and NDCs for a future aligned with the Paris Agreement (RIA), expected EU contribution per project around 4.50 million Euro, for 3 projects
- HORIZON-CL5-2024-D1-01-06: The role of climate change foresight for primary and secondary raw materials supply (RIA), expected EU contribution per project around 5 million Euro, for 1 project

Climate-ecosystem interactions

 HORIZON-CL5-2024-D1-01-07: Quantification of the role of key terrestrial ecosystems in the carbon cycle and related climate effects - (RIA), expected EU contribution per project around 10 million Euro, for 2 projects

DESTINATION 2 – CROSS-SECTORAL SOLUTIONS FOR THE CLIMATE TRANSITION

Call - Cross-sectoral solutions for the climate transition (HORIZON-CL5-2023-D2-01) Deadline: 18.4.2023

A competitive and sustainable European battery value chain

- 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), expected EU contribution per project around 7 million Euro, for 3 projects
- HORIZON-CL5-2023-D2-01-02: New processes for upcoming recycling feeds (Batt4EU Partnership) (RIA), expected EU contribution per project around 5 million Euro, for 3 projects
- HORIZON-CL5-2023-D2-01-03: Advanced digital twins for battery cell production lines (Batt4EU Partnership) (RIA), expected EU contribution per project around 7 million Euro, for 2 projects
- 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, LS), expected EU contribution per project around 7.50 million Euro, for 2 projects
- HORIZON-CL5-2023-D2-01-05: Hybrid electric energy storage solutions for grid support and charging
 infrastructure (Batt4EU Partnership) (IA), expected EU contribution per project around 6 million Euro,
 for 2 projects



Cross-cutting

- HORIZON-CL5-2023-D2-01-06: Open Pilot Line/Test Bed for hydrogen (IA), expected EU contribution per project around 10 million Euro, for 1 project
- HORIZON-CL5-2023-D2-01-07: Support for the deployment of R&I results for climate mitigation. Synergies with the ETS Innovation Fund (CSA, LS), expected EU contribution per project around 1 million Euro, for 4 projects

Communities and Cities

• HORIZON-CL5-2023-D2-01-08: Driving Urban Transition Co-funded Partnership - (COFUND), expected EU contribution per project around 37 million Euro, for 1 project

Call - Cross-sectoral solutions for the climate transition (HORIZON-CL5-2023-D2-02) Deadline: 5.9.2023 A competitive and sustainable European battery value chain

- 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), expected EU contribution per project around 8 million Euro, for 3 projects
- 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), expected EU contribution per project around 5 million Euro, for 2 projects
- 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), expected EU contribution per project around 8 million Euro, for 1 project

Call - Cross-sectoral solutions for the climate transition (HORIZON-CL5-2024-D2-01) Deadline: 18.4.2024 A competitive and sustainable European battery value chain

- HORIZON-CL5-2024-D2-01-01: Advanced sustainable and safe pre-processing technologies for End-of-Life (EoL) battery recycling (Batt4EU Partnership) - (RIA), expected EU contribution per project around 7 million Euro, for 3 projects
- HORIZON-CL5-2024-D2-01-02: Non-Li Sustainable Batteries with European Supply Chains for Stationary Storage (Batt4EU Partnership) - (IA, LS), expected EU contribution per project around 7 million Euro, for 3 projects
- 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), expected EU contribution per project around 5 million Euro, for 1 project

Emerging breakthrough technologies and climate solutions

HORIZON-CL5-2024-D2-01-04: Emerging energy technologies for a climate neutral Europe - (RIA),
 expected EU contribution per project 1.50 to 2.50 million Euro, for 5 projects

Call - Cross-sectoral solutions for the climate transition (HORIZON-CL5-2024-D2-02) Deadline 5.9.2024

A competitive and sustainable European battery value chain

- HORIZON-CL5-2024-D2-02-01: Sustainable high-throughput production processes for stable lithium metal anodes for next generation batteries (Batt4EU Partnership)- (IA), expected EU contribution per project around 8 million Euro, for 1 project
- HORIZON-CL5-2024-D2-02-02: Post-Li-ion technologies and relevant manufacturing techniques for mobility applications (Generation 5) (Batt4EU Partnership) (RIA), expected EU contribution per project around 5 million Euro, for 3 projects



- HORIZON-CL5-2024-D2-03: 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), expected EU contribution per project around 8 million Euro, for 2 projects
- HORIZON-CL5-2024-D2-02-04: Accelerated multi-physical and virtual testing for battery aging, reliability
 and safety evaluation (Batt4EU Partnership) (IA), expected EU contribution per project around 7.50
 million Euro, for 2 projects

DESTINATION 3 – SUSTAINABLE, SECURE AND COMPETITIVE ENERGY SUPPLY

Call - Sustainable, secure and competitive energy supply (HORIZON-CL5-2023-D3-01) Deadline: 30.3.2023 Global leadership in renewable energy

- HORIZON-CL5-2023-D3-01-01: Renewable Energy Valleys to increase energy security while accelerating
 the green transition in Europe (IA), expected EU contribution per project around 20 million Euro, for 2
 projects
- HORIZON-CL5-2023-D3-01-02: PV integration in buildings and in infrastructure (IA), expected EU contribution per project around 8 million Euro, for 2 projects
- HORIZON-CL5-2023-D3-01-03: Floating PV Systems (IA), expected EU contribution per project around 7 million Euro, for 2 projects
- HORIZON-CL5-2023-D3-01-04: Solar Systems for Industrial Process Heat and Power (IA), expected EU contribution per project around 7 million Euro, for 2 projects
- HORIZON-CL5-2023-D3-01-05: Critical technologies for the offshore wind farm of the Future (RIA), expected EU contribution per project around 6 million Euro, for 3 projects
- HORIZON-CL5-2023-D3-01-06: Demonstration of advanced biofuel technologies for aviation and/or shipping (IA, LS), expected EU contribution per project around 9 million Euro, for 2 projects
- HORIZON-CL5-2023-D3-01-07: Demonstration of synthetic renewable fuel for aviation and/or shipping (IA), expected EU contribution per project around 9 million Euro, for 2 projects
- HORIZON-CL5-2023-D3-01-08: Demonstration of sustainable tidal energy farms (IA), expected EU contribution per project around 20 million Euro, for 2 projects

Energy systems, grids & storage

- HORIZON-CL5-2023-D3-01-09: Waste heat reutilisation from data centres (IA), expected EU contribution per project around 6 million Euro, for 2 projects
- HORIZON-CL5-2023-D3-01-10: Supporting the development of a digital twin to improve management, operations and resilience of the EU Electricity System in support to REPowerEU - (IA), expected EU contribution per project around 20 million Euro, for 1 project
- HORIZON-CL5-2023-D3-01-11: Demonstration of DC powered data centres, buildings, industries and ports (IA), expected EU contribution per project around 9 million Euro, for 2 projects
- HORIZON-CL5-2023-D3-01-12: Development of MVDC, HVDC and High-Power Transmission systems and components for a resilient grid (IA, LS), expected EU contribution per project around 11 million Euro, for 2 projects
- HORIZON-CL5-2023-D3-01-13: Development of novel long-term electricity storage technologies (RIA), expected EU contribution per project 4 to 5 million Euro, for 3 projects
- HORIZON-CL5-2023-D3-01-14: Demonstration of innovative, large-scale, seasonal heat and/or cooling storage technologies for decarbonisation and security of supply - (IA), expected EU contribution per project around 10 million Euro, for 3 projects



- HORIZON-CL5-2023-D3-01-15: Supporting the green and digital transformation of the energy ecosystem
 and enhancing its resilience through the development and piloting of Al-IoT Edge-cloud and platform
 solutions (IA), expected EU contribution per project around 18 million Euro, for 1 project
- HORIZON-CL5-2023-D3-01-16: Support action to the SET Plan IWG on HVDC & DC Technologies (CSA), expected EU contribution per project around 0.60 million Euro, for 1 project

Carbon Capture, Utilization and Storage (CCUS)

- HORIZON-CL5-2023-D3-01-17: Development of CO2 transport and storage demo projects (IA), expected EU contribution per project around 20 million Euro, for 2 projects
- HORIZON-CL5-2023-D3-01-18: Clean Energy Transition Co-funded Partnership- (COFUND), expected EU contribution per project around 68 million Euro, for 1 project

Call - Sustainable, secure and competitive energy supply (HORIZON-CL5-2023-D3-02) Deadline: 5.9.2023 Global leadership in renewable energy

- HORIZON-CL5-2023-D3-02-01: Development of near zero-emission biomass heat and/or CHP including carbon capture (RIA), expected EU contribution per project around 4 million Euro, for 2 projects
- HORIZON-CL5-2023-D3-02-02: Novel thermal energy storage for CSP (RIA), expected EU contribution per project around 2.50 million Euro, for 2 projects
- HORIZON-CL5-2023-D3-02-03: Industrial manufacturing for lower-cost solar thermal components and systems (IA), expected EU contribution per project around 3 million Euro, for 2 projects
- HORIZON-CL5-2023-D3-02-04: Innovative components and configurations for heat pumps (RIA), expected EU contribution per project around 2 million Euro, for 3 projects
- HORIZON-CL5-2023-D3-02-05: Advanced exploration technologies for geothermal resources in a wide range of geological settings - (RIA), expected EU contribution per project around 4 million Euro, for 2 projects
- HORIZON-CL5-2023-D3-02-06: Smart use of geothermal electricity and heating and cooling in the energy system (IA), expected EU contribution per project around 5 million Euro, for 3 projects
- HORIZON-CL5-2023-D3-02-07: Development of next generation advanced biofuel technologies (RIA), expected EU contribution per project around 4 million Euro, for 3 projects
- HORIZON-CL5-2023-D3-02-08: Development of microalgae and/or direct solar fuel production and purification technologies for advanced aviation and /or shipping fuels - (RIA), expected EU contribution per project around 4 million Euro, for 2 projects
- HORIZON-CL5-2023-D3-02-09: Demonstration of sustainable hydropower refurbishment (IA, LS), expected EU contribution per project around 8 million Euro, for 1 project
- HORIZON-CL5-2023-D3-02-10: Development of innovative power take-off and control systems for wave energy devices (RIA, LS), expected EU contribution per project around 4 million Euro, for 2 projects
- HORIZON-CL5-2023-D3-02-11: Advanced concepts for crystalline Silicon technology (RIA), expected EU contribution per project around 3 million Euro, for 3 projects
- HORIZON-CL5-2023-D3-02-12: Large Area Perovskite solar cells and modules (IA), expected EU contribution per project around 7 million Euro, for 2 projects
- HORIZON-CL5-2023-D3-02-13: Operation, Performance and Maintenance of PV Systems (IA), expected EU contribution per project around 5 million Euro, for 2 projects
- HORIZON-CL5-2023-D3-02-14: Digital twin for forecasting of power production to wind energy demand (RIA, LS), expected EU contribution per project around 6 million Euro, for 2 projects
- HORIZON-CL5-2023-D3-02-15: Critical technologies to improve the lifetime, efficient decommissioning and increase the circularity of offshore and onshore wind energy systems (RIA), expected EU contribution per project around 4 million Euro, for 3 projects
- HORIZON-CL5-2023-D3-02-16: Accelerating the green transition and energy access in Africa (IA),
 expected EU contribution per project around 5 million Euro, for 4 projects



Call - Sustainable, secure and competitive energy supply (HORIZON-CL5-2023-D3-03) Deadline: 10.10.2023 Energy systems, grids & storage

- HORIZON-CL5-2023-D3-03-01: Increasing the efficiency of innovative static energy conversion devices for electricity and heat/cold generation - (RIA), expected EU contribution per project around 3 million Euro, for 3 projects
- HORIZON-CL5-2023-D3-03-02: Integration of renewable gases, other than hydrogen or methane, and
 which have not access to gas grids and interfacing with electricity and heat sectors (IA), expected EU
 contribution per project around 6 million Euro, for 2 projects
- HORIZON-CL5-2023-D3-03-03: System approach for grid planning and upgrade in support of a dominant electric mobility (vehicles and vessels) using AI tools (IA), expected EU contribution per project around 11 million Euro, for 1 project
- HORIZON-CL5-2023-D3-03-04: Digital tools for enhancing the uptake of digital services in the energy market (IA), expected EU contribution per project 3 to 4 million Euro, for 3 projects
- HORIZON-CL5-2023-D3-03-05: Creation of a standardised and open-source peer-to-peer energy sharing platform architecture for the energy sector (IA), expected EU contribution per project around 5 million Euro, for 1 project
- HORIZON-CL5-2023-D3-03-06: Components and interfacing for AC & DC side protection system AC & DC grid: components and systems for grid optimisation (IA), expected EU contribution per project around 5 million Euro, for 2 projects

Call - Sustainable, secure and competitive energy supply (HORIZON-CL5-2024-D3-01) Deadline: 16.1.2024 Global leadership in renewable energy

- HORIZON-CL5-2024-D3-01-01: Alternative equipment and processes for advanced manufacturing of PV technologies - (IA), expected EU contribution per project around 12 million Euro, for 2 projects
- HORIZON-CL5-2024-D3-01-02: Low-power PV (IA, LS), expected EU contribution per project around 3 million Euro, for 2 projects
- HORIZON-CL5-2024-D3-01-03: Demonstration of improved intermediate renewable energy carrier technologies for transport fuels - (IA, LS), expected EU contribution per project around 10 million Euro, for 2 projects
- HORIZON-CL5-2024-D3-01-04: Improvement of light harvesting and carbon fixation with synthetic biology and/or bio-inspired//biomimetic pathways for renewable direct solar fuels production (RIA), expected EU contribution per project around 4 million Euro, for 2 projects
- HORIZON-CL5-2024-D3-01-05: Development of carbon fixation technologies for biogenic flue gases (RIA), expected EU contribution per project around 4 million Euro, for 2 projects
- HORIZON-CL5-2024-D3-01-06: Innovative applications/integration of geothermal heating and cooling in industry (RIA), expected EU contribution per project around 3 million Euro, for 3 projects
- HORIZON-CL5-2024-D3-01-07: Development of hydropower equipment for improving techno-economic efficiency and equipment resilience in refurbishment situations - (RIA), expected EU contribution per project around 4 million Euro, for 2 projects
- HORIZON-CL5-2024-D3-01-08: Demonstration of sustainable wave energy farms (IA), expected EU contribution per project 18 to 20 million Euro, for 2 projects
- HORIZON-CL5-2024-D3-01-09: Africa-EU CO-FUND action (COFUND), expected EU contribution per project around 10 million Euro, for 1 project
- HORIZON-CL5-2024-D3-01-10: Next generation of renewable energy technologies (RIA), expected EU contribution per project around 3 million Euro, for 9 projects



Energy systems, grids & storage

- HORIZON-CL5-2024-D3-01-11: Al Testing and Experimentation Facility (TEF) for the energy sector –
 bringing technology to the market (IA), expected EU contribution per project around 5 million Euro, for
 3 projects
- HORIZON-CL5-2024-D3-01-12: Energy Management Systems for flexibility services (IA), expected EU contribution per project around 5 million Euro, for 2 projects
- HORIZON-CL5-2024-D3-01-13: DC and AC/DC hybrid transmission and distribution systems (RIA),
 expected EU contribution per project around 6 million Euro, for 2 projects
- HORIZON-CL5-2024-D3-01-14: Condition & Health Monitoring in Power Electronics (PE) Wide Band Gap
 PE for the energy sector (RIA), expected EU contribution per project around 4 million Euro, for 3
 projects
- HORIZON-CL5-2024-D3-01-15: HVAC, HVDC and High-Power cable systems- (RIA, LS), expected EU contribution per project 5 to 5.50 million Euro, for 3 projects
- HORIZON-CL5-2024-D3-01-16: Demonstration of innovative pumped storage equipment and tools in combination with innovative storage management systems - (IA), expected EU contribution per project around 8 million Euro, for 1 projects
- HORIZON-CL5-2024-D3-01-17: Development and integration of advanced software tools in SCADA systems for High, Medium and Low voltage AC/DC hybrid systems - (IA), expected EU contribution per project around 6 million Euro, for 2 projects

Call - Sustainable, secure and competitive energy supply (HORIZON-CL5-2024-D3-02) Deadline: 5.9.2024 Global leadership in renewable energy

- HORIZON-CL5-2024-D3-02-01: Digital tools for CSP and solar thermal plants (IA, LS), expected EU contribution per project around 3 million Euro, for 2 projects
- HORIZON-CL5-2024-D3-02-02: Development of next generation synthetic renewable fuel technologies (RIA), expected EU contribution per project around 4 million Euro, for 3 projects
- HORIZON-CL5-2024-D3-02-03 Development of smart concepts of integrated energy driven bio-refineries for co-production of advanced biofuels, bio-chemicals and biomaterials (RIA), expected EU contribution per project around 3.50 million Euro, for 2 projects
- HORIZON-CL5-2024-D3-02-04: Critical technologies for the future ocean energy farms (RIA), expected EU contribution per project around 4 million Euro, for 2 projects
- HORIZON-CL5-2024-D3-02-05: PV-integrated electric mobility applications (IA), expected EU contribution per project around 7 million Euro, for 2 projects
- HORIZON-CL5-2024-D3-02-06: Innovative, Community-Integrated PV systems (IA), expected EU contribution per project around 5 million Euro, for 2 projects
- HORIZON-CL5-2024-D3-02-07: Resource Efficiency of PV in Production, Use and Disposal (CSA, LS), expected EU contribution per project around 3 million Euro, for 1 project
- HORIZON-CL5-2024-D3-02-08: Minimisation of environmental, and optimisation of socio-economic impacts in the deployment, operation and decommissioning of offshore wind farms (RIA,LS), expected EU contribution per project around 5 million Euro, for 2 projects
- HORIZON-CL5-2024-D3-02-09: Demonstrations of innovative floating wind concepts (IA), expected EU contribution per project around 15 million Euro, for 2 projects
- HORIZON-CL5-2024-D3-02-10: Market Uptake Measures of renewable energy systems (CSA, LS), expected EU contribution per project around 2 million Euro, for 4 projects



Carbon Capture, Utilization and Storage (CCUS)

- HORIZON-CL5-2024-D3-02-11: CCU for the production of fuels (IA, LS), expected EU contribution per project around 7 million Euro, for 2 projects
- HORIZON-CL5-2024-D3-02-12: DACCS and BECCS for CO2 removal/negative emissions (IA, LS), expected EU contribution per project 5 to 7 million Euro, for 3 projects

DESTINATION 4 – EFFICIENT, SUSTAINABLE AND INCLUSIVE ENERGY USE

Call - Efficient, sustainable and inclusive energy use (HORIZON-CL5-2023-D4-01) Deadline: 20.4.2023 Highly energy-efficient and climate neutral European building stock

- HORIZON-CL5-2023-D4-01-01: Innovative cost-efficient solutions for zero-emission buildings (IA),
 expected EU contribution per project around 5 million Euro, for 2 projects
- HORIZON-CL5-2023-D4-01-02 Future-proofing historical buildings for the clean energy transition (RIA), expected EU contribution per project around 4.50 million Euro, for 2 projects
- HORIZON-CL5-2023-D4-01-03: Interoperable solutions for positive energy districts (PEDs), including a
 better integration of local renewables and local excess heat sources (IA, LS), expected EU contribution
 per project around 4 million Euro, for 2 projects
- HORIZON-CL5-2023-D4-01-04: Thermal management and energy optimisation of high energy demand IT systems equipment in tertiary buildings (RIA, LS), expected EU contribution per project around 3 million Euro, for 2 projects
- HORIZON-CL5-2023-D4-01-05: Innovative solutions for cost-effective decarbonisation of buildings through energy efficiency and electrification - (IA), expected EU contribution per project around 12.50 million Euro, for 2 projects

Industry

 HORIZON-CL5-2023-D4-01-06: Integration of renewable heat or industrial waste heat in heat-to-cold conversion systems to generate cold for industrial processes - (IA, LS), expected EU contribution per project around 10 million Euro, for 2 projects

Call - Efficient, sustainable and inclusive energy use (HORIZON-CL5-2023-D4-02) Deadline: 5.9.2023 Highly energy-efficient and climate neutral European building stock

- HORIZON-CL5-2023-D4-02-01: Innovative uses of lifecycle data for the management of buildings and buildings portfolios (Built4People Partnership) - (IA, LS), expected EU contribution per project around 5 million Euro, for 2 projects
- HORIZON-CL5-2023-D4-02-02: Solutions for the identification of vulnerable buildings and people-centric built environment, and for improving their resilience in disruptive events and altered conditions in a changing climate (Built4People Partnership) (IA), expected EU contribution per project around 5 million Euro, for 2 projects
- HORIZON-CL5-2023-D4-02-03: Demonstrate built-environment decarbonisation pathways through bottom-up technological, social and policy innovation for adaptive integrated sustainable renovation solutions (Built4People Partnership) - (IA), expected EU contribution per project around 6 million Euro, for 2 projects
- HORIZON-CL5-2023-D4-02-04: Fast-tracking and promoting built environment construction and renovation innovation with local value chains (Built4People Partnership) (CSA, LS), expected EU contribution per project around 2 million Euro, for 1 project



 HORIZON-CL5-2023-D4-02-05: Supporting the creation of an accessible and inclusive built environment (Built4People Partnership) - (IA, LS), expected EU contribution per project around 5 million Euro, for 2 projects

Call - Efficient, sustainable and inclusive energy use (HORIZON-CL5-2024-D4-01) Deadline: 18.4.2024 Highly energy-efficient and climate neutral European building stock

- HORIZON-CL5-2024-D4-01-01: Low-disruptive renovation processes using integration of prefabricated solutions for energy-efficient buildings (IA), expected EU contribution per project around 5 million Euro, for 2 projects
- HORIZON-CL5-2024-D4-01-02: Smart grid-ready buildings- (IA), expected EU contribution per project around 5 million Euro, for 2 projects

Industry

HORIZON-CL5-2024-D4-01-03: Alternative heating systems for efficient, flexible and electrified heat
generation in industry - (IA, LS), expected EU contribution per project around 5.30 million Euro, for 3
projects

Call - Efficient, sustainable and inclusive energy use (HORIZON-CL5-2024-D4-02) Deadline: 5.9.2024 Highly energy-efficient and climate neutral European building stock

- HORIZON-CL5-2024-D4-02-01: Industrialisation of sustainable and circular deep renovation workflows (Built4People Partnership) - (IA, LS), expected EU contribution per project around 8 million Euro, for 2 projects
- HORIZON-CL5-2024-D4-02-02: Robotics and other automated solutions for construction, renovation and maintenance in a sustainable built environment (Built4People Partnership) - (RIA), expected EU contribution per project around 4 million Euro, for 2 projects
- HORIZON-CL5-2024-D4-02-03: BIM-based processes and digital twins for facilitating and optimising circular energy renovation (Built4People Partnership) - (IA, LS), expected EU contribution per project around 4 million Euro, for 2 projects
- HORIZON-CL5-2024-D4-02-04: Design for adaptability, re-use and deconstruction of buildings, in line with the principles of circular economy (Built4People Partnership) (RIA), expected EU contribution per project around 4 million Euro, for 2 projects
- HORIZON-CL5-2024-D4-02-05: Digital solutions to foster participative design, planning and management
 of buildings, neighbourhoods and urban districts (Built4People Partnership) (IA, LS), expected EU
 contribution per project around 5 million Euro, for 2 projects

DESTINATION 5 – CLEAN AND COMPETITIVE SOLUTIONS FOR ALL TRANSPORT MODES

Call - Clean and competitive solutions for all transport modes (HORIZON-CL5-2023-D5-01) Deadline: 20.4.2023 Zero-emission road transport

- HORIZON-CL5-2023-D5-01-01: User-centric design and operation of EV for optimized energy efficiency (2ZERO Partnership) (IA), expected EU contribution per project 4 to 5 million Euro, for 3 projects
- HORIZON-CL5-2023-D5-01-02: Innovative battery management systems for next generation vehicles
 (2ZERO & Batt4EU Partnership) (IA), expected EU contribution per project around 5 million Euro, for 2
 projects



- HORIZON-CL5-2023-D5-01-03: Frugal zero-emission vehicles concepts for the urban passenger challenge (2ZERO Partnership) (IA), expected EU contribution per project 7 to 12 million Euro, for 2 projects
- HORIZON-CL5-2023-D5-01-04: Circular economy approaches for zero emission vehicles (2ZERO Partnership) (RIA), expected EU contribution per project around 12 million Euro, for 1 project
- HORIZON-CL5-2023-D5-01-05: Measuring road transport results towards 2ZERO KPIs (2ZERO Partnership) - (CSA, LS), expected EU contribution per project around 1 million Euro, for 1 project
- HORIZON-CL5-2023-D5-01-06: EU Member States/Associated countries research policy cooperation network to accelerate zero-emission road mobility (2ZERO Partnership) - (CSA, LS), expected EU contribution per project around 1.50 million Euro, for 1 project

Aviation

- HORIZON-CL5-2023-D5-01-07: Hydrogen-powered aviation (IA), expected EU contribution per project 8 to 10 million Euro, for 2 projects
- HORIZON-CL5-2023-D5-01-08: Accelerating climate neutral hydrogen-powered/electrified aviation -(RIA), expected EU contribution per project 3 to 4 million Euro, for 4 projects
- HORIZON-CL5-2023-D5-01-09: Competitiveness and digital transformation in aviation advancing further capabilities, digital approach to design (RIA), expected EU contribution per project 3 to 5 million Euro, for 4 projects
- HORIZON-CL5-2023-D5-01-10: Aviation research synergies between Horizon Europe, AZEA and National programs (CSA, LS), expected EU contribution per project around 2 million Euro, for 1 project

Waterborne transport

- HORIZON-CL5-2023-D5-01-11: Developing the next generation of power conversion technologies for sustainable alternative carbon neutral fuels in waterborne applications (ZEWT Partnership) - (RIA), expected EU contribution per project around 8 million Euro, for 2 projects
- HORIZON-CL5-2023-D5-01-12: Demonstrations to accelerate the switch to safe use of new sustainable climate neutral fuels in waterborne transport (ZEWT Partnership) - (IA), expected EU contribution per project 8 to 13 million Euro, for 3 projects
- HORIZON-CL5-2023-D5-01-13: Integrated real-time digital solutions to optimise navigation and port calls to reduce emissions from shipping (ZEWT Partnership) (IA), expected EU contribution per project around 7.50 million Euro, for 2 projects
- HORIZON-CL5-2023-D5-01-14: Developing a flexible offshore supply of zero emission auxiliary power for ships moored or anchored at sea deployable before 2030 (ZEWT Partnership) (IA), expected EU contribution per project around 8.50 million Euro, for 1 project
- HORIZON-CL5-2023-D5-01-15: Reducing the environmental impact from shipyards and developing a whole life strategy to measure and minimise the non-operational environmental impacts from shipping (IA), expected EU contribution per project around 4.50 million Euro, for 2 projects
- HORIZON-CL5-2023-D5-01-16: Developing small, flexible, zero-emission and automated vessels to support shifting cargo from road to sustainable Waterborne Transport (RIA), expected EU contribution per project around 4.50 million Euro, for 2 projects
- HORIZON-CL5-2023-D5-01-17: Towards the implementation of the inland navigation action programme
 with a focus on Green and Connected Inland Waterway Transport (CSA, LS), expected EU contribution
 per project around 1,5 million Euro, for 1 project

Transport-related health and environment

• HORIZON-CL5-2023-D5-01-18: Advanced transport emissions monitoring networks - (IA), expected EU contribution per project around 5 million Euro, for 2 projects

Cross-cutting actions

• HORIZON-CL5-2023-D5-01-19: Support for the organisation of EU-US symposia in the field of Transport Research - (CSA, LS), expected EU contribution per project around 0.50 million Euro, for 1 project



Call - Clean and competitive solutions for all transport modes (HORIZON-CL5-2024-D5-01) Deadline: 18.4.2024 Zero-emission road transport

- HORIZON-CL5-2024-D5-01-01: Smart, low-cost pervasive stationary slow charging and bi-directional solutions synergic with the grid for EV mass deployment (2ZERO Partnership) (IA), expected EU contribution per project 7 to 8 million Euro, for 2 projects
- HORIZON-CL5-2024-D5-01-02: Integration and testing of next generation post-800V electric powertrains (2ZERO Partnership) (RIA), expected EU contribution per project 4 to 6 million Euro, for 3 projects
- HORIZON-CL5-2024-D5-01-03: Advanced battery system integration for next generation vehicles (2ZERO Partnership) (RIA), expected EU contribution per project around 5 million Euro, for 2 projects
- HORIZON-CL5-2024-D5-01-04: Integrated flexible multipoint megawatt charging systems for electric truck mass deployment (2ZERO Partnership) (2024) - (IA), expected EU contribution per project 7 to 8.50 million Euro, for 2 projects
- HORIZON-CL5-2024-D5-01-05: Advanced digital development tools to accelerate the development of software defined vehicles that enable zero-emission mobility (2ZERO Partnership) - (RIA), expected EU contribution per project 4 to 5 million Euro, for 2 projects
- HORIZON-CL5-2024-D5-01-06: New designs, shapes, functionalities of Light Commercial Vehicles (2ZERO Partnership) (IA), expected EU contribution per project around 10 million Euro, for 1 project

Aviation

- HORIZON-CL5-2024-D5-01-07: Accelerating climate neutral aviation, minimising non-CO2 emissions (RIA), expected EU contribution per project 4 to 5 million Euro, for 4 projects
- HORIZON-CL5-2024-D5-01-08: Competitiveness and digital transformation in aviation advancing further composite aerostructures - (RIA, LS), expected EU contribution per project 3 to 5 million Euro, for 4 projects
- HORIZON-CL5-2024-D5-01-09: Impact monitoring of EU Aviation R&I (RIA), expected EU contribution per project around 8 million Euro, for 1 project
- HORIZON-CL5-2024-D5-01-10: Towards a flying testbed for European leadership in aviation (RIA),
 expected EU contribution per project around 16 million Euro, for 1 project

Waterborne transport

- HORIZON-CL5-2024-D5-01-11: Achieving high voltage, low weight, efficient electric powertrains for sustainable waterborne transport (ZEWT Partnership) (RIA), expected EU contribution per project around 7.50 million Euro, for 2 projects
- HORIZON-CL5-2024-D5-01-12: Combining state-of-the-art emission reduction and efficiency improvement technologies in ship design and retrofitting for contributing to the "Fit for 55" package objective by 2030 (ZEWT Partnership) (IA), expected EU contribution per project around 7.50 million Euro, for 2 projects
- HORIZON-CL5-2024-D5-01-13: Demonstration of Technologies to minimise underwater noise generated by waterborne transport (ZEWT Partnership) (IA), expected EU contribution per project around 6 million Euro, for 1 project
- HORIZON-CL5-2024-D5-01-14: Demonstrating efficient fully DC electric grids within waterborne transport for large ship applications (ZEWT Partnership) - (IA), expected EU contribution per project around 7.50 million Euro, for 2 projects
- HORIZON-CL5-2024-D5-01-15: Advanced digitalisation and modelling utilizing operational and other
 data to support zero emission waterborne transport (ZEWT Partnership) (IA), expected EU contribution
 per project around 7.70 million Euro, for 1 project
- HORIZON-CL5-2024-D5-01-16: Structuring the Waterborne transport sector, including through changed business and industrial models in order to achieve commercial zero-emission waterborne transport (ZEWT Partnership) - (CSA, LS), expected EU contribution per project around 0.85 million Euro, for 1 project



HORIZON-CL5-2024-D5-01-17: Coordinating and supporting the combined activities of member and
associated states towards the objectives of the Zero Emission Waterborne Transport partnership so as
to increase synergies and impact (ZEWT Partnership) - (CSA, LS), expected EU contribution per project
around 1.50 million Euro, for 1 project

Transport-related health and environment

HORIZON-CL5-2024-D5-01-18: Assessment of air pollutant emissions from low-carbon fuels in the heavy-duty, aviation, and maritime sectors - (RIA), expected EU contribution per project around 3.50 million Euro, for 2 projects

DESTINATION 6 – SAFE, RESILIENT TRANSPORT AND SMART MOBILITY SERVICES FOR PASSENGERS AND GOODS

Call - Safe, Resilient Transport and Smart Mobility services for passengers and goods (HORIZON-CL5-2023-D6-01) Deadline: 5.9.2023

Connected, Cooperative and Automated Mobility (CCAM)

- HORIZON-CL5-2023-D6-01-01: User-centric development of vehicle technologies and solutions to
 optimise the on-board experience and ensure inclusiveness (CCAM Partnership) (RIA), expected EU
 contribution per project around 4 million Euro, for 2 projects
- HORIZON-CL5-2023-D6-01-02: Generation of scenarios for development, training, virtual testing and validation of CCAM systems (CCAM Partnership) (RIA), expected EU contribution per project around 20 million Euro, for 1 project
- HORIZON-CL5-2023-D6-01-03: Infrastructure-enabled solutions for improving the continuity or extension of Operational Design Domains (ODDs) (CCAM Partnership) (IA), expected EU contribution per project around 6 million Euro, for 2 projects
- HORIZON-CL5-2023-D6-01-04: Integrating European diversity in the design, development and implementation of CCAM solutions to support mobility equity (CCAM Partnership)- (RIA), expected EU contribution per project 3 to 4 million Euro, for 2 projects
- HORIZON-CL5-2023-D6-01-05: CCAM effects on jobs and education, plans for skills that match the CCAM development, and prerequisites for employment growth (CCAM Partnership) (RIA), expected EU contribution per project around 2 million Euro, for 1 project

Multimodal transport, infrastructure and logistics

- HORIZON-CL5-2023-D6-01-06: Zero-emission e-commerce and freight delivery and return choices by retailers, consumers and local authorities - (RIA), expected EU contribution per project around 3 million Euro, for 2 projects
- HORIZON-CL5-2023-D6-01-07: Operational automation to support multimodal freight transport (RIA), expected EU contribution per project around 4 million Euro, for 2 projects
- HORIZON-CL5-2023-D6-01-08: Future-proof GHG and environmental emissions factors for accounting emissions from transport and logistics operations - (CSA, LS), expected EU contribution per project around 3 million Euro, for 1 project
- HORIZON-CL5-2023-D6-01-09: Climate resilient and safe maritime ports (IA), expected EU contribution per project around 7 million Euro, for 2 projects

Safety and resilience

 HORIZON-CL5-2023-D6-01-10: Better infrastructure safety on urban and secondary rural roads throughout a combination of adaptable monitoring and maintenance solutions - (RIA), expected EU contribution per project around 5 million Euro, for 2 projects



- HORIZON-CL5-2023-D6-01-11: Aviation safety Uncertainty quantification for safety and risk management (RIA), expected EU contribution per project around 4 million Euro, for 2 projects
- HORIZON-CL5-2023-D6-01-12: New ways of reducing serious injuries and the long-term consequences of road crashes (RIA), expected EU contribution per project around 4 million Euro, for 2 projects

Cross-cutting actions

• HORIZON-CL5-2023-D6-01-13: Support for dissemination events in the field of Transport Research - (CSA, LS), expected EU contribution per project around 1.50 million Euro, for 1 project

Call - Safe, Resilient Transport and Smart Mobility services for passengers and goods (HORIZON-CL5-2024-D6-01) Deadline: 5.9.2024

Connected, Cooperative and Automated Mobility (CCAM)

- HORIZON-CL5-2024-D6-01-01: Centralised, reliable, cyber-secure & upgradable in-vehicle electronic
 control architectures for CCAM connected to the cloud-edge continuum (CCAM Partnership) (RIA),
 expected EU contribution per project around 6 million Euro, for 2 projects
- HORIZON-CL5-2024-D6-01-02: Scenario-based safety assurance of CCAM and related HMI in a dynamically evolving transport system (CCAM Partnership) (RIA), expected EU contribution per project around 14 million Euro, for 1 project
- HORIZON-CL5-2024-D6-01-03: Orchestration of heterogeneous actors in mixed traffic within the CCAM ecosystem (CCAM Partnership) - (IA), expected EU contribution per project around 6 million Euro, for 2 projects
- HORIZON-CL5-2024-D6-01-04: Al for advanced and collective perception and decision making for CCAM applications (CCAM Partnership) (RIA), expected EU contribution per project around 5 million Euro, for 2 projects
- HORIZON-CL5-2024-D6-01-05: Robust Knowledge and Know-How transfer for Key-Deployment Pathways and implementation of the EU-CEM (CCAM Partnership) (CSA, LS), expected EU contribution per project around 4 million Euro, for 1 project

Multimodal transport, infrastructure and logistics

- HORIZON-CL5-2024-D6-01-06: Optimising multimodal network and traffic management, harnessing data from infrastructures, mobility of passengers and freight transport - (RIA), expected EU contribution per project 4 to 5 million Euro, for 2 projects
- HORIZON-CL5-2024-D6-01-07: Scaling up logistics innovations supporting freight transport decarbonisation in an affordable way - (IA), expected EU contribution per project around 10 million Euro, for 2 projects
- HORIZON-CL5-2024-D6-01-08: Improved transport infrastructure performance Innovative digital tools and solutions to monitor and improve the management and operation of transport infrastructure (IA), expected EU contribution per project around 5 million Euro, for 3 projects
- HORIZON-CL5-2024-D6-01-09: Policies and governance shaping the future transport and mobility systems (RIA, LS), expected EU contribution per project around 3 million Euro, for 1 project

Safety and resilience

- HORIZON-CL5-2024-D6-01-10: Ensuring the safety, resilience and security of waterborne digital systems-(RIA), expected EU contribution per project around 4 million Euro, for 2 projects
- HORIZON-CL5-2024-D6-01-11: Effects of disruptive changes in transport: towards resilient, safe and energy efficient mobility - (RIA, LS), expected EU contribution per project 3 to 3.50 million Euro, for 2 projects
- HORIZON-CL5-2024-D6-01-12: A new framework to improve traffic safety culture in the EU (RIA, LS), expected EU contribution per project around 3.50 million Euro, for 2 projects



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