

CLUSTER 5 „CLIMATE, ENERGY AND MOBILITY“

TOPICLISTE

AUSSCHREIBUNGEN 2023/2024

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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)

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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 long-term 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-D2-02-03: 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), 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 AI-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: AI 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 (ZEWTP 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: AI 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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Datenstand: Dezember 2022

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