

EUROPOS HORIZONTAS

2024 m. KVIETIMAI

5 veiksmų grupė „Klimatas, energetika, judumas“

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VEIKLŲ TIPAI:

RIA – mokslinių tyrimų ir inovacijų veikla (100 % finansavimas)

IA – inovacijų veikla (70 % finansavimas, ne pelno siekiančioms organizacijoms – 100 %)

CSA – koordinavimo ir paramos veikla (100 % finansavimas)

COFUND – bendro finansavimo veikla (100 % finansavimas)

FINANSAVIMO MODELIS:

LS (Lump Sum) – vienkartinių/nustatytų išmokų modelis

Action Grant Budget Based – faktinių išlaidų kompensavimo modelis

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

7 KVIETIMAI – [Climate sciences and responses \(HORIZON-CL5-2024-D1-01\)](#)

Deadline: 2024-03-05

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

5 KVIETIMAI – [Cross-sectoral solutions for the climate transition \(HORIZON-CL5-2024-D2-01\)](#) **Deadline: 2024-04-18**

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 8 million Euro, for 2 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*
- [HORIZON-CL5-2024-D2-01-05](#): Furthering the development of a materials acceleration platform for sustainable batteries (combining AI, big data, autonomous synthesis robotics, high throughput testing) (Batt4EU Partnership) - (RIA), *expected EU contribution per project around 20 million Euro, for 1 project*

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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*

3 KVIETIMAI – [Cross-sectoral solutions for the climate transition \(HORIZON-CL5-2024-D2-02\)](#) **Deadline 2024-09-05**

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*

DESTINATION 3 – SUSTAINABLE, SECURE AND COMPETITIVE ENERGY SUPPLY

12 KVIETIMŲ – [Sustainable, secure and competitive energy supply \(HORIZON-CL5-2024-D3-02\)](#)

Deadline: 2025-01-21

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

3 KVIETIMAI – [Efficient, sustainable and inclusive energy use \(HORIZON-CL5-2024-D4-01\)](#)

Deadline: 2024-04-18

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*

5 KVIETIMAI – [Efficient, sustainable and inclusive energy use \(HORIZON-CL5-2024-D4-02\)](#)

Deadline: 2025-01-21

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

18 KVIETIMŲ – [Clean and competitive solutions for all transport modes \(HORIZON-CL5-2024-D5-01\)](#)

Deadline: 2024-04-18

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 5 projects*
- [HORIZON-CL5-2024-D5-01-09](#): Impact monitoring of EU Aviation R&I - (RIA), *expected EU contribution per project around 3 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 (ZEWTP 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 (ZEWTP 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 (ZEWTP 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 (ZEWTP 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 (ZEWTP 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 (ZEWTP 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 heavyduty, 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

12 KVIETIMŲ – [Safe, Resilient Transport and Smart Mobility services for passengers and goods \(HORIZON-CL5-2024-D6-01\)](#)

Deadline: 2024-09-05

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*

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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*

NCP KONTAKTAI

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