



Horizonte Europa

Pilar 2. Retos Globales y Competitividad Industrial Europea

Cluster 5 Climate, Energy and Mobility

DESTINATION 1 – Climate sciences and responses for the transformation towards climate neutrality

		Acción	Fecha cierre	Presupuesto por propuesta (M€)	Número de proyectos a financiar*
Call - Climate sciences and responses 2024	HORIZON-CL5-2024-D1-01-01: Enhanced quantification and understanding of natural and anthropogenic methane emissions and sinks	RIA	05/03/2024	15	1
	HORIZON-CL5-2024-D1-01-02: Inland ice, including snow cover, glaciers, ice sheets and permafrost, and their interaction with climate change	RIA	05/03/2024	6 a 7,5	3
	HORIZON-CL5-2024-D1-01-03: Paleoclimate science for a better understanding of the short- to long-term evolution of the Earth system	RIA	05/03/2024	15	1
	HORIZON-CL5-2024-D1-01-04: Improved toolbox for evaluating the climate and environmental impacts of trade policies	RIA	05/03/2024	6	2
	HORIZON-CL5-2024-D1-01-05: Next generation low-emission, climate-resilient pathways and NDCs for a future aligned with the Paris Agreement	RIA	05/03/2024	4,5	3
	HORIZON-CL5-2024-D1-01-06: The role of climate change foresight for primary and secondary raw materials supply	RIA	05/03/2024	5	1
	HORIZON-CL5-2024-D1-01-07: Quantification of the role of key terrestrial ecosystems in the carbon cycle and related climate effects	RIA	05/03/2024	10	2

DESTINATION 2 – Cross-sectorial solutions for the climate transition

		Acción	Fecha cierre	Presupuesto por propuesta (M€)	Número de proyectos a financiar*
Call - Cross-sectorial solutions for the climate transition	HORIZON-CL5-2024-D2-01-01: Advanced sustainable and safe pre-processing technologies for End-of-Life (EoL) battery recycling (Batt4EU Partnership)	RIA	18/04/2024	8	2
	HORIZON-CL5-2024-D2-01-02: Non-Li Sustainable Batteries with European Supply Chains for Stationary Storage (Batt4EU Partnership)	IA	18/04/2024	7	3
	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	18/04/2024	5	1

Climate transition 2024	HORIZON-CL5-2024-D2-01-04: Emerging energy technologies for a climate neutral Europe	RIA	18/04/2024	1,5 a 2,5	5
	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	18/04/2024	20	1
Call - Cross-sectoral solutions for the climate transition 2024	HORIZON-CL5-2024-D2-02-01: Sustainable high-throughput production processes for stable lithium metal anodes for next generation batteries (Batt4EU Partnership)	IA	05/09/2024	8	1
	HORIZON-CL5-2024-D2-02-02: Post-Li-ion technologies and relevant manufacturing techniques for mobility applications (Generation 5) (Batt4EU Partnership)	RIA	05/09/2024	5	3
	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	05/09/2024	8	2
DESTINATION 3 – Sustainable, secure and competitive energy supply		Acción	Fecha cierre	Presupuesto por propuesta (M€)	Número de proyectos a financiar*
Call - Sustainable, secure and competitive energy supply 2024	HORIZON-CL5-2024-D3-02-01: Digital tools for CSP and solar thermal plants	IA	21/01/2025	3	2
	HORIZON-CL5-2024-D3-02-02: Development of next generation synthetic renewable fuel technologies	RIA	21/01/2025	4	3
	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	21/01/2025	3,5	2
	HORIZON-CL5-2024-D3-02-04: Critical technologies for the future ocean energy farms	RIA	21/01/2025	4	2
	HORIZON-CL5-2024-D3-02-05: PV-integrated electric mobility applications	IA	21/01/2025	7	2
	HORIZON-CL5-2024-D3-02-06: Innovative, Community-Integrated PV systems	IA	21/01/2025	5	2
	HORIZON-CL5-2024-D3-02-07: Resource Efficiency of PV in Production, Use and Disposal	CSA	21/01/2025	3	1
	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	21/01/2025	5	2

	HORIZON-CL5-2024-D3-02-09: Demonstrations of innovative floating wind concepts	IA	21/01/2025	15	2
	HORIZON-CL5-2024-D3-02-10: Market Uptake Measures of renewable energy systems	CSA	21/01/2025	2	4
	HORIZON-CL5-2024-D3-02-11: CCU for the production of fuels	IA	21/01/2025	7	2
	HORIZON-CL5-2024-D3-02-12: DACCS and BECCS for CO2 removal/negative emissions	IA	21/01/2025	5 a 7	3
DESTINATION 4 – Efficient, sustainable and inclusive energy use		Acción	Fecha cierre	Presupuesto por propuesta (M€)	Número de proyectos a financiar*
Call - Efficient, sustainable and inclusive energy use 2024	HORIZON-CL5-2024-D4-01-01: Low-disruptive renovation processes using integration of prefabricated solutions for energy-efficient buildings	IA	18/04/2024	5	2
	HORIZON-CL5-2024-D4-01-02: Smart grid-ready buildings	IA	18/04/2024	5	2
	HORIZON-CL5-2024-D4-01-03: Alternative heating systems for efficient, flexible and electrified heat generation in industry	IA	18/04/2024	5,3	3
Call - Efficient, sustainable and inclusive energy use 2024	HORIZON-CL5-2024-D4-02-01: Industrialisation of sustainable and circular deep renovation workflows (Built4People Partnership)	IA	21/01/2025	8	2
	HORIZON-CL5-2024-D4-02-02: Robotics and other automated solutions for construction, renovation and maintenance in a sustainable built environment (Built4People Partnership)	IA	21/01/2025	4	2
	HORIZON-CL5-2024-D4-02-03: BIM-based processes and digital twins for facilitating and optimising circular energy renovation (Built4People Partnership)	IA	21/01/2025	4	2
	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	21/01/2025	4	2
	HORIZON-CL5-2024-D4-02-05: Digital solutions to foster participative design, planning and management of buildings, neighbourhoods and urban districts (Built4People Partnership)	RIA	21/01/2025	5	2
DESTINATION 5 – Clean and competitive solutions for all transport modes		Acción	Fecha cierre	Presupuesto por propuesta (M€)	Número de proyectos a financiar*
	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	18/04/2024	7 a 8	2

Call - Clean and competitive solutions for all transport modes 2024

HORIZON-CL5-2024-D5-01-02: Integration and testing of next generation post-800V electric powertrains (2ZERO Partnership)	RIA	18/04/2024	4 a 6	3
HORIZON-CL5-2024-D5-01-03: Advanced battery system integration for next generation vehicles (2ZERO Partnership)	RIA	18/04/2024	5	2
HORIZON-CL5-2024-D5-01-04: Integrated flexible multipoint megawatt charging systems for electric truck mass deployment (2ZERO Partnership) (2024)	IA	18/04/2024	7 a 8,5	2
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	18/04/2024	4 a 5	2
HORIZON-CL5-2024-D5-01-06: New designs, shapes, functionalities of Light Commercial Vehicles (2ZERO Partnership)	IA	18/04/2024	10	1
HORIZON-CL5-2024-D5-01-07: Accelerating climate neutral aviation, minimising non-CO2 emissions	RIA	18/04/2024	4 a 5	4
HORIZON-CL5-2024-D5-01-08: Competitiveness and digital transformation in aviation – advancing further composite aerostructures	RIA	18/04/2024	3 a 5	5
HORIZON-CL5-2024-D5-01-09: Impact monitoring of EU Aviation R&I	RIA	18/04/2024	3	1
HORIZON-CL5-2024-D5-01-10: Towards a flying testbed for European leadership in aviation	RIA	18/04/2024	16	1
HORIZON-CL5-2024-D5-01-11: Achieving high voltage, low weight, efficient electric powertrains for sustainable waterborne transport (ZEWT Partnership)	RIA	18/04/2024	7,5	2
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	18/04/2024	7,5	2
HORIZON-CL5-2024-D5-01-13: Demonstration of Technologies to minimise underwater noise generated by waterborne transport (ZEWT Partnership)	IA	18/04/2024	6	1
HORIZON-CL5-2024-D5-01-14: Demonstrating efficient fully DC electric grids within waterborne transport for large ship applications (ZEWT Partnership)	IA	18/04/2024	7,5	2
HORIZON-CL5-2024-D5-01-15: Advanced digitalisation and modelling utilizing operational and other data to support zero emission waterborne transport (ZEWT Partnership)	IA	18/04/2024	7,7	1

	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	18/04/2024	0,85	1
	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	18/04/2024	1,5	1
	HORIZON-CL5-2024-D5-01-18: Assessment of air pollutant emissions from low-carbon fuels in the heavy-duty, aviation, and maritime sectors	RIA	18/04/2024	3,5	2
DESTINATION 6 – Safe, Resilient Transport and Smart Mobility services for passengers and goods		Acción	Fecha cierre	Presupuesto por propuesta (M€)	Número de proyectos a financiar*
Call - Safe, Resilient Transport and Smart Mobility services for passengers and goods (2021)	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	05/09/2024	6	2
	HORIZON-CL5-2024-D6-01-02: Scenario-based safety assurance of CCAM and related HMI in a dynamically evolving transport system (CCAM Partnership)	RIA	05/09/2024	14	1
	HORIZON-CL5-2024-D6-01-03: Orchestration of heterogeneous actors in mixed traffic within the CCAM ecosystem (CCAM Partnership)	IA	05/09/2024	6	2
	HORIZON-CL5-2024-D6-01-04: AI for advanced and collective perception and decision making for CCAM applications (CCAM Partnership)	RIA	05/09/2024	5	2
	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	05/09/2024	4	1
	HORIZON-CL5-2024-D6-01-06: Optimising multimodal network and traffic management, harnessing data from infrastructures, mobility of passengers and freight transport	RIA	05/09/2024	4 a 5	2
	HORIZON-CL5-2024-D6-01-07: Scaling up logistics innovations supporting freight transport decarbonisation in an affordable way	IA	05/09/2024	10	2
	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	05/09/2024	5	3
	HORIZON-CL5-2024-D6-01-09: Policies and governance shaping the future transport and mobility systems	RIA	05/09/2024	3	1

	HORIZON-CL5-2024-D6-01-10: Ensuring the safety, resilience and security of waterborne digital systems	RIA	05/09/2024	4	2
	HORIZON-CL5-2024-D6-01-11: Effects of disruptive changes in transport: towards resilient, safe and energy efficient mobility	RIA	05/09/2024	3 a 3,5	2
	HORIZON-CL5-2024-D6-01-12: A new framework to improve traffic safety culture in the EU	RIA	05/09/2024	3,5	2