

## Destination 1: Climate sciences and responses for the transformation towards climate neutrality

#	Felhívás azonosító jele	Felhívás Típusa	Felhívás neve	Felhívás keretösszege (EUR millió)	Felhívás beadásának tervezett ideje	Várható uniós hozzájárulás projektenként (EUR millió)	Várhatóan finanszírozandó projektek száma	Hány lépcsős a pályázat?	TRL szint	Pályázat kiírás linkje, egyéb információ
	HORIZON-CL5-2024-D1-01-01	RIA	Enhanced quantification and understanding of natural and anthropogenic methane emissions and sinks	15.00	05 Mar 2024	around 15.00	1	1	-	
	HORIZON-CL5-2024-D1-01-02	RIA	Inland ice, including snow cover, glaciers, ice sheets and permafrost, and their interaction with climate change	22.00	05 Mar 2024	6.00-7.50	3	1	-	
	HORIZON-CL5-2024-D1-01-03	RIA	Paleoclimate science for a better understanding of the short- to long-term evolution of the Earth system	15.00	05 Mar 2024	around 15.00	1	1	-	
	HORIZON-CL5-2024-D1-01-04	RIA	Improved toolbox for evaluating the climate and environmental impacts of trade policies	12.00	05 Mar 2024	around 6.00	2	1	-	
	HORIZON-CL5-2024-D1-01-05	RIA	Next generation low-emission, climate-resilient pathways and NDCs for a future aligned with the Paris Agreement	14.00	05 Mar 2024	around 4.50	3	1	-	
	HORIZON-CL5-2024-D1-01-06	RIA	The role of climate change foresight for primary and secondary raw materials supply	5.00	05 Mar 2024	around 5.00	1	1	-	
	HORIZON-CL5-2024-D1-01-07	RIA	Quantification of the role of key terrestrial ecosystems on the carbon cycle and related climate effects	20.00	05 Mar 2024	around 10.00	2	1	-	

## Destination 2: Cross-sectoral solutions for the climate transition

#	Felhívás azonosító jele	Felhívás Típusa	Felhívás neve	Felhívás keretösszege (EUR millió)	Felhívás beadásának tervezett ideje	Várható uniós hozzájárulás projektenként (EUR millió)	Várhatóan finanszírozandó projektek száma	Hány lépcsős a pályázat?	TRL szint	Pályázat kiírás linkje, egyéb információ
	HORIZON-CL5-2024-D2-01-01	RIA	Advanced sustainable and safe pre-processing technologies for End-of-Life (EoL) battery recycling (Batt4EU Partnership)	21.00	18 Apr 2024	around 7.00	3	1	Achieve TRL 5	
	HORIZON-CL5-2024-D2-01-02	IA	Non-Li Sustainable Batteries with European Supply Chains for Stationary Storage (Batt4EU Partnership)	21.00	18 Apr 2024	around 7.00	3	1	Achieve TRL 6-7	
	HORIZON-CL5-2024-D2-01-03	RIA	Development of technical and business solutions to optimise the circularity, resilience, and sustainability of the European battery value chain (Batt4EU Partnership)	5.00	18 Apr 2024	around 5.00	1	1	Achieve TRL 5	
	HORIZON-CL5-2024-D2-01-04	RIA	Emerging energy technologies for a climate neutral Europe	10.00	18 Apr 2024	2.50-10.00	4	1	Achieve TRL 4	
	HORIZON-CL5-2024-D2-02-01	IA	Sustainable high-throughput production processes for stable lithium metal anodes for next generation batteries (Batt4EU Partnership)	8.00	05 Sep 2024	around 8.00	1	1	Achieve TRL 6-7	
	HORIZON-CL5-2024-D2-02-02	RIA	Post-Li-ion technologies and relevant manufacturing techniques for mobility	15.00	05 Sep 2024	around 5.00	3	1	Achieve TRL 4	
	HORIZON-CL5-2024-D2-02-03	IA	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)	16.00	05 Sep 2024	around 8.00	2	1	Achieve TRL 6-7	
	HORIZON-CL5-2024-D2-02-04	IA	Accelerated multi-physical and virtual testing for battery aging, reliability and safety evaluation (Batt4EU Partnership)	15.00	05 Sep 2024	around 7.50	2	1	Achieve TRL 6	

**Destination 3: Sustainable, secure and competitive energy supply**

#	Felhívás azonosító jele	Felhívás Típusa	Felhívás neve	Felhívás keretösszege (EUR millió)	Felhívás beadásának tervezett ideje	Várható uniós hozzájárulás projektenként (EUR millió)	Várhatóan finanszírozandó projektek száma	Hány lépcsős a pályázat?	TRL szint	Pályázat kiírás linkje, egyéb információ
	HORIZON-CL5-2024-D3-01-01	IA	Alternative equipment and processes for advanced manufacturing of PV technologies	24.00	16 Jan 2024	around 12.00	2	1	Achieve TRL 7-8	
	HORIZON-CL5-2024-D3-01-02	IA	Low-power PV	6.00	16 Jan 2024	around 3.00	2	1	Achieve TRL 7	
	HORIZON-CL5-2024-D3-01-03	IA	Demonstration of improved intermediate renewable energy carrier technologies for	20.00	16 Jan 2024	around 10.00	2	1	Achieve TRL 6-7	
	HORIZON-CL5-2024-D3-01-04	RIA	Improvement of light harvesting and carbon fixation with synthetic biology and/or bio-inspired//biomimetic pathways for renewable direct solar fuels production	8.00	16 Jan 2024	around 4.00	2	1	Achieve TRL 6-7	
	HORIZON-CL5-2024-D3-01-05	RIA	Development of carbon fixation technologies for biogenic flue gases	8.00	16 Jan 2024	around 4.00	2	1	Achieve TRL 5	
	HORIZON-CL5-2024-D3-01-06	RIA	Innovative applications/integration of geothermal heating and cooling in industry	9.00	16 Jan 2024	around 3.00	3	1	Achieve TRL 7	
	HORIZON-CL5-2024-D3-01-07	RIA	Development of hydropower equipment for improving techno-economic efficiency and equipment resilience in refurbishment situations	8.00	16 Jan 2024	around 4.00	2	1	Achieve TRL 5-7	
	HORIZON-CL5-2024-D3-01-08	IA	Demonstration of sustainable wave energy farms	38.00	16 Jan 2024	18.00-20.00	2	1	Achieve TRL 6-7	
	HORIZON-CL5-2024-D3-01-09	COFUND	Africa-EU CO-FUND action	10.00	16 Jan 2024	around 10.00	1	1	-	
	HORIZON-CL5-2024-D3-01-10	RIA	Next generation of renewable energy technologies	27.00	16 Jan 2024	around 3.00	9	1	Achieve TRL 3-4	
	HORIZON-CL5-2024-D3-01-11	IA	AI Testing and Experimentation Facility (TEF) for the energy sector – bringing technology to the market	16.00	16 Jan 2024	around 5.00	3	1	Achieve TRL 6-8	
	HORIZON-CL5-2024-D3-01-12	IA	Energy Management Systems for flexibility services	10.00	16 Jan 2024	around 5.00	2	1	Achieve TRL 7-8	
	HORIZON-CL5-2024-D3-01-13	RIA	DC and AC/DC hybrid transmission and distribution systems	13.00	16 Jan 2024	around 6.00	2	1	Achieve TRL 4-5	
	HORIZON-CL5-2024-D3-01-14	RIA	Condition & Health Monitoring in Power Electronics (PE) - Wide Band Gap PE for the energy sector	13.00	16 Jan 2024	around 4.00	3	1	Achieve TRL 5-6	
	HORIZON-CL5-2024-D3-01-15	RIA	HVAC, HVDC and High-Power cable systems	16.00	16 Jan 2024	5.00-5.50	3	1	Achieve TRL 4-5	
	HORIZON-CL5-2024-D3-01-16	IA	Demonstration of innovative pumped storage equipment and tools in combination with innovative storage management systems	8.00	16 Jan 2024	around 8.00	1	1	Achieve TRL 7-8	
	HORIZON-CL5-2024-D3-01-17	IA	Development and integration of advanced software tools in SCADA systems for High, Medium and Low voltage AC/DC hybrid systems	12.00	16 Jan 2024	around 6.00	2	1	Achieve TRL 6-8	
	HORIZON-CL5-2024-D3-02-01	IA	Digital tools for CSP and solar thermal plants	6.00	05 Sep 2024	around 3.00	2	1	Achieve TRL 7-8	
	HORIZON-CL5-2024-D3-02-02	RIA	Development of next generation synthetic renewable fuel technologies	12.00	05 Sep 2024	around 4.00	3	1	Achieve TRL 3-4	
	HORIZON-CL5-2024-D3-02-03	RIA	Development of smart concepts of integrated energy driven bio-refineries for	7.00	05 Sep 2024	around 3.50	2	1	Achieve TRL 5	
	HORIZON-CL5-2024-D3-02-04	RIA	Critical technologies for the future ocean energy farms	8.00	05 Sep 2024	around 4.00	2	1	Achieve TRL 5	
	HORIZON-CL5-2024-D3-02-05	IA	PV-integrated electric mobility applications	14.00	05 Sep 2024	around 7.00	2	1	Achieve TRL 6-7	
	HORIZON-CL5-2024-D3-02-06	IA	Innovative, Community-Integrated PV systems	10.00	05 Sep 2024	around 5.00	2	1	Achieve TRL 6-7	
	HORIZON-CL5-2024-D3-02-07	CSA	Resource Efficiency of PV in Production, Use and Disposal	3.00	05 Sep 2024	around 3.00	1	1	-	
	HORIZON-CL5-2024-D3-02-08	RIA	Minimisation of environmental, and optimisation of socio-economic impacts in the deployment, operation and decommissioning of offshore wind farms	10.00	05 Sep 2024	around 5.00	2	1	Achieve TRL 5	
	HORIZON-CL5-2024-D3-02-09	IA	Demonstrations of innovative floating wind concepts	30.00	05 Sep 2024	around 15.00	2	1	Achieve TRL 7-8	
	HORIZON-CL5-2024-D3-02-10	CSA	Market Uptake Measures of renewable energy systems	8.00	05 Sep 2024	around 2.00	4	1	-	
	HORIZON-CL5-2024-D3-02-11	IA	CCU for the production of fuels	15.00	05 Sep 2024	around 7.00	2	1	Achieve TRL 6-7	
	HORIZON-CL5-2024-D3-02-12	IA	DACCS and BECCS for CO2 removal/negative emissions	15.00	05 Sep 2024	5.00-7.00	3	1	Achieve TRL 6-7	

### Destination 4: Efficient, sustainable and inclusive energy use

#	Felhívás azonosító jele	Felhívás Típusa	Felhívás neve	Felhívás keretösszege (EUR millió)	Felhívás beadásának tervezett ideje	Várható uniós hozzájárulás projektenként (EUR millió)	Várhatóan finanszírozandó projektek száma	Hány lépcsős a pályázat?	TRL szint	Pályázat kiírás linkje, egyéb információ
	HORIZON-CL5-2024-D4-01-01	IA	Low-disruptive renovation processes using integration of prefabricated solutions for energy-efficient buildings	10.00	18 Apr 2024	around 5.00	2	1	Achieve TRL 6-8	
	HORIZON-CL5-2024-D4-01-02	IA	Smart grid-ready buildings	10.00	18 Apr 2024	around 5.00	2	1	Achieve TRL 6-8	
	HORIZON-CL5-2024-D4-01-03	IA	Alternative heating systems for efficient, flexible and electrified heat generation in industry	16.00	18 Apr 2024	aorund 5.30	3	1	Achieve TRL 6-7	
	HORIZON-CL5-2024-D4-02-01	IA	Industrialisation of sustainable and circular deep renovation workflows (Built4People Partnership)	16.00	05 Sep 2024	around 8.00	2	1	Achieve TRL 6-8	
	HORIZON-CL5-2024-D4-02-02	RIA	Robotics and other automated solutions for construction, renovation and maintenance in a sustainable built environment (Built4People Partnership)	8.00	05 Sep 2024	around 4.00	2	1	Achieve TRL 4-5	
	HORIZON-CL5-2024-D4-02-03	IA	BIM-based processes and digital twins for facilitating and optimising circular energy renovation (Built4People Partnership)	8.00	05 Sep 2024	around 4.00	2	1	Achieve TRL 6-8	
	HORIZON-CL5-2024-D4-02-04	RIA	Design for adaptability, re-use and deconstruction of buildings, in line with the principles of circular economy (Built4People Partnership)	8.00	05 Sep 2024	around 4.00	2	1	Achieve TRL 5-6	
	HORIZON-CL5-2024-D4-02-05	IA	Digital solutions to foster participative design, planning and management of buildings, neighbourhoods and urban districts (Built4People Partnership)	10.00	05 Sep 2024	around 5.00	2	1	Achieve TRL 6-8	

Destination 5: Clean and competitive solutions for all transport modes

#	Felhívás azonosító jele	Felhívás Típusa	Felhívás neve	Felhívás keretösszege (EUR millió)	Felhívás beadásának tervezett ideje	Várható uniós hozzájárulás projektenként (EUR millió)	Várhatóan finanszírozandó projektek száma	Hány lépcsős a pályázat?	TRL szint	Pályázat kiírás linkje, egyéb információ
	HORIZON-CL5-2024-D5-01-01	IA	Smart, low-cost pervasive stationary slow charging and bi-directional solutions synergic with the grid for EV mass deployment (ZZERO Partnership)	15.00	18 Apr 2024	7.00-8.00	2	1	Achieve TRL 7-8	
	HORIZON-CL5-2024-D5-01-02	RIA	Integration and testing of next generation post 1200V electric powertrains (ZZERO Partnership)	15.00	18 Apr 2024	4.00-6.00	3	1	Achieve TRL 5	
	HORIZON-CL5-2024-D5-01-03	RIA	Advanced battery system integration for next generation vehicles (ZZERO Partnership)	10.00	18 Apr 2024	around 5.00	2	1	Achieve TRL 5	
	HORIZON-CL5-2024-D5-01-04	IA	Integrated flexible multipoint megawatt charging systems for electric truck mass deployment (ZZERO Partnership)	17.00	18 Apr 2024	7.00-8.50	2	1	Achieve TRL 8	
	HORIZON-CL5-2024-D5-01-05	RIA	Advanced digital development tools to accelerate the development of software defined vehicles that enable zero-emission mobility (ZZERO Partnership)	10.00	18 Apr 2024	4.00-5.00	2	1	Achieve TRL 4-5	
	HORIZON-CL5-2024-D5-01-06	IA	New designs, shapes, functionalities of Light Commercial Vehicles (ZZERO Partnership)	10.00	18 Apr 2024	around 10.00	1	1	Achieve TRL 7-8	
	HORIZON-CL5-2024-D5-01-07	RIA	Accelerating climate neutral aviation, minimising non-CO2 emissions	17.00	18 Apr 2024	4.00-5.00	4	1	Achieve TRL 2-4	
	HORIZON-CL5-2024-D5-01-08	RIA	Competitiveness and digital transformation in aviation – advancing further composite aerostructures	16.00	18 Apr 2024	3.00-5.00	4	1	Achieve TRL 2-4	
	HORIZON-CL5-2024-D5-01-09	RIA	Impact monitoring of EU Aviation R&I	8.00	18 Apr 2024	around 8.00	1	1	-	
	HORIZON-CL5-2024-D5-01-10	RIA	Towards a flying testbed for European leadership in aviation	16.00	18 Apr 2024	around 16.00	1	1	Achieve TRL 4-5	
	HORIZON-CL5-2024-D5-01-11	RIA	Achieving high voltage, low weight, efficient electric powertrains for sustainable waterborne transport (ZEWTP Partnership)	15.00	18 Apr 2024	around 7.50	2	1	Achieve TRL 5	
	HORIZON-CL5-2024-D5-01-12	IA	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)	15.00	18 Apr 2024	around 7.50	2	1	Achieve TRL 7	
	HORIZON-CL5-2024-D5-01-13	IA	Demonstration of Technologies to minimise underwater noise generated by waterborne transport (ZEWTP Partnership)	6.00	18 Apr 2024	around 6.00	1	1	Achieve TRL 6-8	
	HORIZON-CL5-2024-D5-01-14	IA	Demonstrating efficient fully DC electric grids within waterborne transport for large ship applications (ZEWTP Partnership)	15.00	18 Apr 2024	around 7.50	2	1	Achieve TRL 6-8	
	HORIZON-CL5-2024-D5-01-15	IA	Advanced digitalisation and modelling utilizing operational and other data to support zero emission waterborne transport (ZEWTP Partnership)	7.70	18 Apr 2024	around 7.70	1	1	Achieve TRL 6-7	
	HORIZON-CL5-2024-D5-01-16	CSA	Structuring the Waterborne transport sector, including through changed business and industrial models in order to achieve commercial zero-emission waterborne transport (ZEWTP Partnership)	0.85	18 Apr 2024	around 0.85	1	1	-	
	HORIZON-CL5-2024-D5-01-17	CSA	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)	1.50	18 Apr 2024	around 1.50	1	1	-	
	HORIZON-CL5-2024-D5-01-18	RIA	Assessment of air pollutant emissions from low-carbon fuels in the heavy-duty, aviation, and maritime sectors	7.00	18 Apr 2024	around 3.50	2	1	Achieve TRL 5-6	



**Destination 6: Safe, Resilient Transport and Smart Mobility services for passengers and goods**

#	Felhívás azonosító jele	Felhívás Típusa	Felhívás neve	Felhívás keretösszege (EUR millió)	Felhívás beadásának tervezett ideje	Várható uniós hozzájárulás projektenként (EUR millió)	Várhatóan finanszírozandó projektek száma	Hány lépcsős a pályázat?	TRL szint	Pályázat kiírás linkje, egyéb információ
	HORIZON-CL5-2024-D6-01-01	RIA	Centralised, reliable, cyber-secure & upgradable in-vehicle electronic control architectures for CCAM connected to the cloud-edge continuum (CCAM Partnership)	12.00	05 Sep 2024	around 6.00	2	1	Achieve TRL 5	
	HORIZON-CL5-2024-D6-01-02	RIA	Scenario-based safety assurance of CCAM and related HMI in a dynamically evolving transport system (CCAM Partnership)	14.00	05 Sep 2024	around 14.00	1	1	Achieve TRL 5	
	HORIZON-CL5-2024-D6-01-03	IA	Orchestration of heterogeneous actors in mixed traffic within the CCAM ecosystem (CCAM Partnership)	12.00	05 Sep 2024	around 6.00	2	1	Achieve TRL 6-7	
	HORIZON-CL5-2024-D6-01-04	RIA	AI for advanced and collective perception and decision making for CCAM applications (CCAM Partnership)	10.00	05 Sep 2024	around 5.00	2	1	Achieve TRL 5	
	HORIZON-CL5-2024-D6-01-05	CSA	Robust Knowledge and Know-How transfer for Key-Deployment Pathways and implementation of the EU-CEM (CCAM Partnership)	4.00	05 Sep 2024	around 4.00	1	1	-	
	HORIZON-CL5-2024-D6-01-06	RIA	Optimising multimodal network and traffic management, harnessing data from infrastructures, mobility of passengers and freight transport	10.00	05 Sep 2024	4.00-5.00	2	1	Achieve TRL 5	
	HORIZON-CL5-2024-D6-01-07	IA	Scaling up logistics innovations supporting freight transport decarbonisation in an affordable way	20.00	05 Sep 2024	around 10.00	2	1	Achieve TRL 7	
	HORIZON-CL5-2024-D6-01-08	IA	Improved transport infrastructure performance – Innovative digital tools and solutions to monitor and improve the management and operation of transport infrastructure	15.00	05 Sep 2024	around 5.00	3	1	Achieve TRL 7	
	HORIZON-CL5-2024-D6-01-09	RIA	Policies and governance shaping the future transport and mobility systems	3.00	05 Sep 2024	around 3.00	1	1	-	
	HORIZON-CL5-2024-D6-01-10	RIA	Ensuring the safety, resilience and security of waterborne digital systems	8.50	05 Sep 2024	around 4.00	2	1	Achieve TRL 5-6	
	HORIZON-CL5-2024-D6-01-11	RIA	Effects of disruptive changes in transport: towards resilient, safe and energy efficient mobility	7.00	05 Sep 2024	3.00-3.50	2	1	-	
	HORIZON-CL5-2024-D6-01-12	RIA	A new framework to improve traffic safety culture in the EU	7.00	05 Sep 2024	around 3.50	2	1	-	