



MINISTÈRE
DE L'ENSEIGNEMENT
SUPÉRIEUR
ET DE LA RECHERCHE

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Le programme européen pour la recherche et l'innovation



Appels Cluster 5 : 2023-2024

« Climat, Énergie, Transports »

Calendrier indicatif

Lien vers le programme de travail : https://ec.europa.eu/info/funding-tenders/opportunities/docs/2021-2027/horizon/wp-call/2023-2024/wp-8-climate-energy-and-mobility_horizon-2023-2024_en.pdf

Destination 1 : Sciences du climat et réponses pour la transformation vers la neutralité climatique 2023

Ouverture	Clôture	Code Appel	Titre Appel	Type	Budget par projet	Nbr attendu de projets
13/12/2022	18/04/2023	HORIZON-CL5-2023-D1-01-01	Further climate knowledge through advanced science and technologies for analysing Earth observation and Earth system model data	RIA	8	2
13/12/2022	18/04/2023	HORIZON-CL5-2023-D1-01-02	Climate-related tipping points	RIA	7	2
13/12/2022	18/04/2023	HORIZON-CL5-2023-D1-01-03	Climate impacts of a hydrogen economy	RIA	4	2
13/12/2022	18/04/2023	HORIZON-CL5-2023-D1-01-04	Improved knowledge in cloud-aerosol interaction	RIA	8	2
13/12/2022	18/04/2023	HORIZON-CL5-2023-D1-01-05	Science for successful, high-integrity voluntary climate initiatives	RIA	5.5	1
13/12/2022	18/04/2023	HORIZON-CL5-2023-D1-01-06	Broadening the range of policy options in transition pathway analysis	RIA	5	2
13/12/2022	18/04/2023	HORIZON-CL5-2023-D1-01-07	Modelling for local resilience - Developments in support of local adaptation assessments and plans	RIA	12	1
13/12/2022	18/04/2023	HORIZON-CL5-2023-D1-01-08	Solar Radiation Modification: governance of research	CSA	3	1
13/12/2022	18/04/2023	HORIZON-CL5-2023-D1-01-09	Behavioural change and governance for systemic transformations towards climate resilience	RIA	4	2
13/12/2022	18/04/2023	HORIZON-CL5-2023-D1-01-10	Improving the evidence base regarding the impact of sustainability and climate change education and related learning outcomes	RIA	5	1
13/12/2022	18/04/2023	HORIZON-CL5-2023-D1-01-11	Needs-based adaptation to climate change in Africa	RIA	5	2
13/12/2022	18/04/2023	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	2,5	2
13/12/2022	18/04/2023	HORIZON-CL5-2023-D1-02-02	EU-China international cooperation on blue carbon	RIA	5	1



Destination 1 : Sciences du climat et réponses pour la transformation vers la neutralité climatique 2024

Ouverture	Clôture	Code Appel	Titre Appel	Type	Budget par projet	Nbr attendu de projets
12/09/2023	05/03/2024	HORIZON-CL5-2024-D1-01-01	Enhanced quantification and understanding of natural and anthropogenic methane emissions and sinks	RIA	15,00	1
12/09/2023	05/03/2024	HORIZON-CL5-2024-D1-01-02	Inland ice, including snow cover, glaciers, ice sheets and permafrost, and their interaction with climate change	RIA	6-8	3
12/09/2023	05/03/2024	HORIZON-CL5-2024-D1-01-03	Paleoclimate science for a better understanding of the short-to long-term evolution of the Earth system	RIA	15	1
12/09/2023	05/03/2024	HORIZON-CL5-2024-D1-01-04	Improved toolbox for evaluating the climate and environmental impacts of trade policies	RIA	6	2
12/09/2023	05/03/2024	HORIZON-CL5-2024-D1-01-05	Next generation low-emission, climate-resilient pathways and NDCs for a future aligned with the Paris Agreement	RIA	4,5	3
12/09/2023	05/03/2024	HORIZON-CL5-2024-D1-01-06	The role of climate change foresight for primary and secondary raw materials supply	RIA	3	1
12/09/2023	05/03/2024	HORIZON-CL5-2024-D1-01-07	Quantification of the role of key terrestrial ecosystems on the carbon cycle and related climate effects	RIA	10	2

Destination 2 : Une chaîne de valeur européenne des batteries compétitive et durable 2023

Ouverture	Clôture	Code Appel	Titre Appel	Type	Budget par projet	Nbr attendu de projets	TRL (en fin de projet)
13/12/2022	18/04/2023	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	7	3	5
13/12/2022	18/04/2023	HORIZON-CL5-2023-D2-01-02	New processes for upcoming recycling feeds (Batt4EU Partnership)	RIA	5	3	4
13/12/2022	18/04/2023	HORIZON-CL5-2023-D2-01-03	Advanced digital twins for battery cell production lines (Batt4EU Partnership)	RIA	7	2	4-5
13/12/2022	18/04/2023	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	7,5	2	6-7
13/12/2022	18/04/2023	HORIZON-CL5-2023-D2-01-05	Hybrid electric energy storage solutions for grid support and charging infrastructure (Batt4EU Partnership)	IA	6	2	7
04/05/2023	05/09/2023	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	8	3	6
04/05/2023	05/09/2023	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	5	2	5
04/05/2023	05/09/2023	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	8	1	7



Destination 2 : Une chaîne de valeur européenne des batteries compétitive et durable 2024

Ouverture	Clôture	Code Appel	Titre Appel	Type	Budget par projet	Nbr attendu de projets	TRL (en fin de projet)
07/12/2023	18/04/2024	HORIZON-CL5-2024-D2-01-01	Advanced sustainable and safe pre-processing technologies for End-of-Life (EoL) battery recycling (Batt4EU Partnership)	RIA	7	3	5
07/12/2023	18/04/2024	HORIZON-CL5-2024-D2-01-02	Non-Li Sustainable Batteries with European Supply Chains for Stationary Storage (Batt4EU Partnership)	IA	7,5	3	6-7
07/12/2023	18/04/2024	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	5	1	5
07/05/2024	05/09/2024	HORIZON-CL5-2024-D2-02-01	Sustainable high-throughput production processes for stable lithium metal anodes for next generation batteries (Batt4EU Partnership)	IA	8	8	6-7
07/05/2024	05/09/2024	HORIZON-CL5-2024-D2-02-02	Post-Li-ion technologies and relevant manufacturing techniques for mobility applications (Generation 5) (Batt4EU Partnership)	RIA	5	5	4
07/05/2024	05/09/2024	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	8	8	6-7
07/05/2024	05/09/2024	HORIZON-CL5-2024-D2-02-04	Accelerated multi-physical and virtual testing for battery aging, reliability and safety evaluation (Batt4EU Partnership)	IA	7,5	7,5	6

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13/12/2022	18/04/2023	HORIZON-CL5-2023-D2-01-06	Open Pilot Line/Test Bed for hydrogen	IA	10	1	
13/12/2022	18/04/2023	HORIZON-CL5-2023-D2-01-07	Support for the deployment of R&I results for climate mitigation. Synergies with the ETS Innovation Fund	CSA	1	4	
07/12/2023	18/04/2024	HORIZON-CL5-2024-D2-01-04	Emerging energy technologies for a climate neutral Europe	RIA	1,5-2,5	4-6	4

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13/12/2022	30/03/2023	HORIZON-CL5-2023-D3-01-01	Renewable Energy Valleys to increase energy security while accelerating the green transition in Europe	IA	20	2	7-8
13/12/2022	30/03/2023	HORIZON-CL5-2023-D3-01-02	PV integration in buildings and in infrastructure	IA	8	2	7
13/12/2022	30/03/2023	HORIZON-CL5-2023-D3-01-03	Floating PV Systems	IA	7	2	6-7
13/12/2022	30/03/2023	HORIZON-CL5-2023-D3-01-04	Solar Systems for Industrial Process Heat and Power	IA	7	2	6-7
13/12/2022	30/03/2023	HORIZON-CL5-2023-D3-01-05	Critical technologies for the offshore wind farm of the Future	RIA	6	3	5
13/12/2022	30/03/2023	HORIZON-CL5-2023-D3-01-06	Demonstration of advanced biofuel technologies for aviation and/or shipping	IA	9	2	6-7
13/12/2022	30/03/2023	HORIZON-CL5-2023-D3-01-07	Demonstration of synthetic renewable fuel for aviation and/or shipping	IA	9	2	6-7
13/12/2022	30/03/2023	HORIZON-CL5-2023-D3-01-08	Demonstration of sustainable tidal energy farms	IA	20	2	8
04/05/2023	05/09/2023	HORIZON-CL5-2023-D3-02-01	Development of near zero-emission biomass heat and/or CHP including carbon capture	RIA	4	2	5
04/05/2023	05/09/2023	HORIZON-CL5-2023-D3-02-02	Novel thermal energy storage for CSP	RIA	2,5	2	4-5
04/05/2023	05/09/2023	HORIZON-CL5-2023-D3-02-03	Industrial manufacturing for lower-cost solar thermal components and systems	IA	3	2	7-8
04/05/2023	05/09/2023	HORIZON-CL5-2023-D3-02-04	Innovative components and configurations for heat pumps	RIA	2	3	4-5
04/05/2023	05/09/2023	HORIZON-CL5-2023-D3-02-05	Advanced exploration technologies for geothermal resources in a wide range of geological settings	RIA	4	2	5
04/05/2023	05/09/2023	HORIZON-CL5-2023-D3-02-06	Smart use of geothermal electricity and heating and cooling in the energy system	IA	5	3	7
04/05/2023	05/09/2023	HORIZON-CL5-2023-D3-02-07	Development of next generation advanced biofuel technologies	RIA	4	3	4-5
04/05/2023	05/09/2023	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	4	2	4-5
04/05/2023	05/09/2023	HORIZON-CL5-2023-D3-02-09	Demonstration of sustainable hydropower refurbishment	IA	8	1	7-8
04/05/2023	05/09/2023	HORIZON-CL5-2023-D3-02-10	Development of innovative power take-off and control systems for wave energy devices	RIA	4	2	5
04/05/2023	05/09/2023	HORIZON-CL5-2023-D3-02-11	Advanced concepts for crystalline Silicon technology	RIA	3	3	4-5
04/05/2023	05/09/2023	HORIZON-CL5-2023-D3-02-12	Large Area Perovskite solar cells and modules	IA	7	2	6-7
04/05/2023	05/09/2023	HORIZON-CL5-2023-D3-02-13	Operation, Performance and Maintenance of PV Systems	IA	5	2	6-7
04/05/2023	05/09/2023	HORIZON-CL5-2023-D3-02-14	Digital twin for forecasting of power production to wind energy demand	RIA	6	2	5
04/05/2023	05/09/2023	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	4	3	5
04/05/2023	05/09/2023	HORIZON-CL5-2023-D3-02-16	Accelerating the green transition and energy access in Africa	IA	5	4	7

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12/09/2023	16/01/2024	HORIZON-CL5-2024-D3-01-01	Alternative equipment and processes for advanced manufacturing of PV technologies	IA	12	2	7
12/09/2023	16/01/2024	HORIZON-CL5-2024-D3-01-02	Low-power PV	IA	3	2	5-7
12/09/2023	16/01/2024	HORIZON-CL5-2024-D3-01-03	Demonstration of improved intermediate renewable energy carrier technologies for transport fuels	IA	10	2	6-7
12/09/2023	16/01/2024	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	4	2	3-4
12/09/2023	16/01/2024	HORIZON-CL5-2024-D3-01-05	Development of carbon fixation technologies for biogenic flue gases	RIA	4	2	5
12/09/2023	16/01/2024	HORIZON-CL5-2024-D3-01-06	Innovative applications/integration of geothermal heating and cooling in industry	RIA	3	3	5
12/09/2023	16/01/2024	HORIZON-CL5-2024-D3-01-07	Development of hydropower equipment for improving techno-economic efficiency and equipment resilience in refurbishment situations	RIA	4	2	4-5
12/09/2023	16/01/2024	HORIZON-CL5-2024-D3-01-08	Demonstration of sustainable wave energy farms	IA	18-20	2	8
12/09/2023	16/01/2024	HORIZON-CL5-2024-D3-01-09	Africa-EU CO-FUND action	COFUND	10	1	
12/09/2023	16/01/2024	HORIZON-CL5-2024-D3-01-10	Next generation of renewable energy technologies	RIA	3	9	3-4
07/05/2024	05/09/2024	HORIZON-CL5-2024-D3-02-01	Digital tools for CSP and solar thermal plants	IA	3	2	7-8
07/05/2024	05/09/2024	HORIZON-CL5-2024-D3-02-02	Development of next generation synthetic renewable fuel technologies	RIA	4	3	3-4
07/05/2024	05/09/2024	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	3.5	2	5
07/05/2024	05/09/2024	HORIZON-CL5-2024-D3-02-04	Critical technologies for the future ocean energy farms	RIA	4	2	5
07/05/2024	05/09/2024	HORIZON-CL5-2024-D3-02-05	PV-integrated electric mobility applications	IA	7	2	6-7
07/05/2024	05/09/2024	HORIZON-CL5-2024-D3-02-06	Innovative, Community-Integrated PV systems	IA	5	2	6-7
07/05/2024	05/09/2024	HORIZON-CL5-2024-D3-02-07	Resource Efficiency of PV in Production, Use and Disposal	CSA	3	1	
07/05/2024	05/09/2024	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	5	2	5
07/05/2024	05/09/2024	HORIZON-CL5-2024-D3-02-09	Demonstrations of innovative floating wind concepts	IA	15	2	7-8
07/05/2024	05/09/2024	HORIZON-CL5-2024-D3-02-10	Market Uptake Measures of renewable energy systems	CSA	2	4	

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13/12/2022	30/03/2023	HORIZON-CL5-2023-D3-01-09	Waste heat reutilisation from data centres	IA	6	2	7-8
13/12/2022	30/03/2023	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	20	1	6-7
13/12/2022	30/03/2023	HORIZON-CL5-2023-D3-01-11	Demonstration of DC powered data centres, buildings, industries and ports	IA	9	2	6-8
13/12/2022	30/03/2023	HORIZON-CL5-2023-D3-01-12	Development of MVDC, HVDC and High-Power Transmission systems and components for a resilient grid	IA	11	2	8
13/12/2022	30/03/2023	HORIZON-CL5-2023-D3-01-13	Development of novel long-term electricity storage technologies	RIA	4-5	3	4-5
13/12/2022	30/03/2023	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	10	3	7-8
13/12/2022	30/03/2023	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	18	1	7-8
13/12/2022	30/03/2023	HORIZON-CL5-2023-D3-01-16	Support action to the SET-Plan IWG on HVDC & DC Technologies	CSA	0,6	1	
04/05/2023	10/10/2023	HORIZON-CL5-2023-D3-03-01	Increasing the efficiency of innovative static energy conversion devices for electricity and heat/cold generation	RIA	3	3	5-6
04/05/2023	10/10/2023	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	6	2	6-7
04/05/2023	10/10/2023	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	11	1	6-8
04/05/2023	10/10/2023	HORIZON-CL5-2023-D3-03-04	Digital tools for enhancing the uptake of digital services in the energy market	IA	3-4	3	6-7
04/05/2023	10/10/2023	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	5	1	6-8
04/05/2023	10/10/2023	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	5	2	6-8

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12/09/2023	16/01/2024	HORIZON-CL5-2024-D3-01-11	AI Testing and Experimentation Facility (TEF) for the energy sector – bringing technology to the market	IA	5	3	6-8
12/09/2023	16/01/2024	HORIZON-CL5-2024-D3-01-12	Energy Management Systems for flexibility services	IA	5	2	7-8
12/09/2023	16/01/2024	HORIZON-CL5-2024-D3-01-13	DC and AC/DC hybrid transmission and distribution systems	RIA	6	2	4-5
12/09/2023	16/01/2024	HORIZON-CL5-2024-D3-01-14	Condition & Health Monitoring in Power Electronics (PE) - Wide Band Gap PE for the energy sector	RIA	4	3	5-6
12/09/2023	16/01/2024	HORIZON-CL5-2024-D3-01-15	HVAC, HVDC and High-Power cable systems	RIA	5-5,5	3	4-5
12/09/2023	16/01/2024	HORIZON-CL5-2024-D3-01-16	Demonstration of innovative pumped storage equipment and tools in combination with innovative storage management systems	IA	8	1	7-8
12/09/2023	16/01/2024	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	6	2	6-8

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13/12/2022	30/03/2023	HORIZON-CL5-2023-D3-01-17	Development of CO2 transport and storage demo projects	IA	20	2	7-8
07/05/2024	05/09/2024	HORIZON-CL5-2024-D3-02-11	CCU for the production of fuels	IA	7	2	6-7
07/05/2024	05/09/2024	HORIZON-CL5-2024-D3-02-12	DACCS and BECCS for CO2 removal/negative emissions	IA	5-7	3	6-7

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13/12/2022	20/04/2023	HORIZON-CL5-2023-D4-01-01	Innovative cost-efficient solutions for zero-emission buildings	IA	5	2	6-8
13/12/2022	20/04/2023	HORIZON-CL5-2023-D4-01-02	Future-proofing historical buildings for the clean energy transition	RIA	4,5	2	4-5
13/12/2022	20/04/2023	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	4	2	6-8
13/12/2022	20/04/2023	HORIZON-CL5-2023-D4-01-04	Thermal management and energy optimisation of high energy demand IT systems equipment in tertiary buildings	RIA	3	2	4-5
13/12/2022	20/04/2023	HORIZON-CL5-2023-D4-01-05	Innovative solutions for cost-effective decarbonisation of buildings through energy efficiency and electrification	IA	12,5	2	6-8
04/05/2023	05/09/2023	HORIZON-CL5-2023-D4-02-01	Innovative uses of lifecycle data for the management of buildings and buildings portfolios (Built4People Partnership)	IA	5	2	6-8
04/05/2023	05/09/2023	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	5	2	6-8
04/05/2023	05/09/2023	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	6	2	6-8
04/05/2023	05/09/2023	HORIZON-CL5-2023-D4-02-04	Fast-tracking and promoting built environment construction and renovation innovation with local value chains (Built4People Partnership)	CSA	2	1	
04/05/2023	05/09/2023	HORIZON-CL5-2023-D4-02-05	Supporting the creation of an accessible and inclusive built environment (Built4People Partnership)	IA	5	2	6-8

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07/12/2023	18/04/2024	HORIZON-CL5-2024-D4-01-01	Low-disruptive renovation processes using integration of prefabricated solutions for energy-efficient buildings	IA	5	2	6-8
07/12/2023	18/04/2024	HORIZON-CL5-2024-D4-01-02	Smart grid-ready buildings	IA	5	2	6-8
07/05/2024	05/09/2024	HORIZON-CL5-2024-D4-02-01	Industrialisation of sustainable and circular deep renovation workflows (Built4People Partnership)	IA	8	2	6-8
07/05/2024	05/09/2024	HORIZON-CL5-2024-D4-02-02	Robotics and other automated solutions for construction, renovation and maintenance in a sustainable built environment (Built4People Partnership)	RIA	4	2	4-5
07/05/2024	05/09/2024	HORIZON-CL5-2024-D4-02-03	BIM-based processes and digital twins for facilitating and optimising circular energy renovation (Built4People Partnership)	IA	4	2	6-8
07/05/2024	05/09/2024	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	4	2	5-6
07/05/2024	05/09/2024	HORIZON-CL5-2024-D4-02-05	Digital solutions to foster participative design, planning and management of buildings, neighbourhoods and urban districts (Built4People Partnership)	IA	5	2	6-8

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13/12/2022	20/04/2023	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	10	2	7
07/12/2023	18/04/2024	HORIZON-CL5-2024-D4-01-03	Alternative heating systems for efficient, flexible and electrified heat generation in industry	IA	5,3	3	6-7

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13/12/2022	20/04/2023	HORIZON-CL5-2023-D5-01-11	Developing the next generation of power conversion technologies for sustainable alternative carbon neutral fuels in waterborne applications (ZEWTP Partnership)	RIA	8	2	5
13/12/2022	20/04/2023	HORIZON-CL5-2023-D5-01-12	Demonstrations to accelerate the switch to safe use of new sustainable climate neutral fuels in waterborne transport (ZEWTP Partnership)	IA	8-13	3	7-8
13/12/2022	20/04/2023	HORIZON-CL5-2023-D5-01-13	Integrated real-time digital solutions to optimise navigation and port calls to reduce emissions from shipping (ZEWTP Partnership)	IA	7,5	2	6-8
13/12/2022	20/04/2023	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 (ZEWTP Partnership)	IA	8,5	1	6-8
13/12/2022	20/04/2023	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	4,5	2	7-8
13/12/2022	20/04/2023	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	4,5	2	5-6
13/12/2022	20/04/2023	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	1,5	1	

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07/12/2023	18/04/2024	HORIZON-CL5-2024-D5-01-11	Achieving high voltage, low weight, efficient electric powertrains for sustainable waterborne transport (ZEWT Partnership)	RIA	7,5	2	5
07/12/2023	18/04/2024	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	7,5	2	7
07/12/2023	18/04/2024	HORIZON-CL5-2024-D5-01-13	Demonstration of Technologies to minimise underwater noise generated by waterborne transport (ZEWT Partnership)	IA	6	1	6-8
07/12/2023	18/04/2024	HORIZON-CL5-2024-D5-01-14	Demonstrating efficient fully DC electric grids within waterborne transport for large ship applications (ZEWT Partnership)	IA	7,5	2	6-8
07/12/2023	18/04/2024	HORIZON-CL5-2024-D5-01-15	Advanced digitalisation and modelling utilizing operational and other data to support zero emission waterborne transport (ZEWT Partnership)	IA	7,7	1	6-7
07/12/2023	18/04/2024	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	0,85	1	
07/12/2023	18/04/2024	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	1,5	1	



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13/12/2022	20/04/2023	HORIZON-CL5-2023-D5-01-01	User-centric design and operation of EV for optimized energy efficiency (2ZERO Partnership)	IA	4-5	3	6
13/12/2022	20/04/2023	HORIZON-CL5-2023-D5-01-02	Innovative battery management systems for next generation vehicles (2ZERO & Batt4EU Partnership)	IA	5	2	6
13/12/2022	20/04/2023	HORIZON-CL5-2023-D5-01-03	Frugal zero-emission vehicles concepts for the urban passenger challenge (2ZERO Partnership)	IA	7-12	2	7-8
13/12/2022	20/04/2023	HORIZON-CL5-2023-D5-01-04	Circular economy approaches for zero emission vehicles (2ZERO Partnership)	RIA	12	1	5
13/12/2022	20/04/2023	HORIZON-CL5-2023-D5-01-05	Measuring road transport results towards 2ZERO KPIs (2ZERO Partnership)	CSA	1	1	
13/12/2022	20/04/2023	HORIZON-CL5-2023-D5-01-06	EU Member States/Associated countries research policy cooperation network to accelerate zero-emission road mobility (2ZERO Partnership)	CSA	1,5	1	
07/12/2023	18/04/2024	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	7-8	2	7-8
07/12/2023	18/04/2024	HORIZON-CL5-2024-D5-01-02	Integration and testing of next generation post 1200V electric powertrains (2ZERO Partnership)	RIA	4-6	3	5
07/12/2023	18/04/2024	HORIZON-CL5-2024-D5-01-03	Advanced battery system integration for next generation vehicles (2ZERO Partnership)	RIA	5	2	5
07/12/2023	18/04/2024	HORIZON-CL5-2024-D5-01-04	Integrated flexible multipoint megawatt charging systems for electric truck mass deployment (2ZERO Partnership) (2024)	IA	7-8,5	2	8
07/12/2023	18/04/2024	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	4-5	2	4-5
07/12/2023	18/04/2024	HORIZON-CL5-2024-D5-01-06	New designs, shapes, functionalities of Light Commercial Vehicles (2ZERO Partnership)	IA	10	1	7-8

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13/12/2022	20/04/2023	HORIZON-CL5-2023-D5-01-07	Hydrogen-powered aviation	IA	8-10	2	6
13/12/2022	20/04/2023	HORIZON-CL5-2023-D5-01-08	Accelerating climate neutral hydrogen-powered/electrified aviation	RIA	3-4	4	2-3
13/12/2022	20/04/2023	HORIZON-CL5-2023-D5-01-09	Competitiveness and digital transformation in aviation – advancing further capabilities, digital approach to design	RIA	3-5	4	2-4
13/12/2022	20/04/2023	HORIZON-CL5-2023-D5-01-10	Aviation research synergies between Horizon Europe, AZEA and National programs	CSA	2	1	
07/12/2023	18/04/2024	HORIZON-CL5-2024-D5-01-07	Accelerating climate neutral aviation, minimising non-CO2 emissions	RIA	4-5	4	2-4
07/12/2023	18/04/2024	HORIZON-CL5-2024-D5-01-08	Competitiveness and digital transformation in aviation – advancing further composite aerostructures	RIA	3-5	4	2-4
07/12/2023	18/04/2024	HORIZON-CL5-2024-D5-01-09	Impact monitoring of EU Aviation R&I	RIA	8	1	
07/12/2023	18/04/2024	HORIZON-CL5-2024-D5-01-10	Towards a flying testbed for European leadership in aviation	RIA	16	1	4-5

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13/12/2022	20/04/2023	HORIZON-CL5-2023-D5-01-18	Advanced transport emissions monitoring networks	IA	5	2	7-8
13/12/2022	20/04/2023	HORIZON-CL5-2023-D5-01-19	Support for the organisation of EU-US symposia in the field of Transport Research	CSA	0,5	1	
07/12/2023	18/04/2024	HORIZON-CL5-2024-D5-01-18	Assessment of air pollutant emissions from low-carbon fuels in the heavy-duty, aviation, and maritime sectors	RIA	3,5	2	5-6

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04/05/2023	05/09/2023	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	4	2	5
04/05/2023	05/09/2023	HORIZON-CL5-2023-D6-01-02	Generation of scenarios for development, training, virtual testing and validation of CCAM systems (CCAM Partnership)	RIA	20	1	5
04/05/2023	05/09/2023	HORIZON-CL5-2023-D6-01-03	Infrastructure-enabled solutions for improving the continuity or extension of Operational Design Domains (ODDs) (CCAM Partnership)	IA	6	2	6-7
04/05/2023	05/09/2023	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	3-4	2	
04/05/2023	05/09/2023	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	2	1	
07/05/2024	05/09/2024	HORIZON-CL5-2024-D6-01-01	Centralized, reliable, cyber-secure & upgradable in-vehicle electronic control architectures for CCAM connected to the cloud-edge continuum (CCAM Partnership)	RIA	6	2	5
07/05/2024	05/09/2024	HORIZON-CL5-2024-D6-01-02	Scenario-based safety assurance of CCAM and related HMI in a dynamically evolving transport system (CCAM Partnership)	RIA	14	1	5
07/05/2024	05/09/2024	HORIZON-CL5-2024-D6-01-03	Orchestration of heterogeneous actors in mixed traffic within the CCAM ecosystem (CCAM Partnership)	IA	6	2	6-7
07/05/2024	05/09/2024	HORIZON-CL5-2024-D6-01-04	AI for advanced and collective perception and decision making for CCAM applications	RIA	5	2	5
07/05/2024	05/09/2024	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	4	1	

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04/05/2023	05/09/2023	HORIZON-CL5-2023-D6-01-06	Zero-emission e-commerce and freight delivery and return choices by retailers, consumers and local authorities	RIA	3	2	5
04/05/2023	05/09/2023	HORIZON-CL5-2023-D6-01-07	Operational automation to support multimodal freight transport	RIA	4	2	5
04/05/2023	05/09/2023	HORIZON-CL5-2023-D6-01-08	Future-proof GHG and environmental emissions factors for accounting emissions from transport and logistics operations	CSA	3	1	
04/05/2023	05/09/2023	HORIZON-CL5-2023-D6-01-09	Climate resilient and safe maritime ports	IA	7	2	7
07/05/2024	05/09/2024	HORIZON-CL5-2024-D6-01-06	Optimising multimodal network and traffic management, harnessing data from infrastructures, mobility of passengers and freight transport	RIA	4-5	2	5
07/05/2024	05/09/2024	HORIZON-CL5-2024-D6-01-07	Scaling up logistics innovations supporting freight transport decarbonisation in an affordable way	IA	10	2	7
07/05/2024	05/09/2024	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	5	3	7
07/05/2024	05/09/2024	HORIZON-CL5-2024-D6-01-09	Policies and governance shaping the future transport and mobility systems	RIA	3	1	

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04/05/2023	05/09/2023	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	5	2	5-6
04/05/2023	05/09/2023	HORIZON-CL5-2023-D6-01-11	Aviation safety - Uncertainty quantification for safety and risk management	RIA	4	2	3-5
04/05/2023	05/09/2023	HORIZON-CL5-2023-D6-01-12	New ways of reducing serious injuries and the long-term consequences of road crashes	RIA	4	2	5-6
04/05/2023	05/09/2023	HORIZON-CL5-2023-D6-01-13	Support for dissemination events in the field of Transport Research	CSA	1,5	1	
07/05/2024	05/09/2024	HORIZON-CL5-2024-D6-01-10	Ensuring the safety, resilience and security of waterborne digital systems	RIA	4	2	5-6
07/05/2024	05/09/2024	HORIZON-CL5-2024-D6-01-11	Effects of disruptive changes in transport: towards resilient, safe and energy efficient mobility	RIA	3-3,5	2	
07/05/2024	05/09/2024	HORIZON-CL5-2024-D6-01-12	A new framework to improve traffic safety in the EU, with reduced energy dependency of transport and use of private cars	RIA	3,5	2	

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