



Appels Cluster 5 2021-2022

Calendrier indicatif



Destination	Thematic area	Topic	Topic title	Type of action	TRL (by the end of the project)	Budget 2021 (en M€)	Budget 2022 (en M€)	Expected UE contribution per project (M€)	Expected number of grants	Call opening date	Deadline	Budget
1	Climate science	HORIZON-CL5-2021-D1-01-01	Improved understanding of greenhouse gas fluxes and radiative forcers, including carbon dioxide removal technologies	RIA	//	24		Around 8.00	3	15/04/2021	07/09/2021	24 000 000,00
1	Climate science	HORIZON-CL5-2021-D1-01-02	Modelling the role of the circular economy for climate change mitigation	RIA	//	15		Around 5.00	3	15/04/2021	07/09/2021	15 000 000,00
1	Climate science	HORIZON-CL5-2021-D1-01-03	Maximising the impact and synergy of European climate change research and innovation	CSA	//	8		3.00 to 5.00	2	15/04/2021	07/09/2021	8 000 000,00
1	Climate science	HORIZON-CL5-2021-D1-01-04	Enhanced integrated assessment in pursuit of global climate goals	RIA	//	15		Around 5.00	3	15/04/2021	07/09/2021	15 000 000,00
1	Climate science	HORIZON-CL5-2021-D1-01-05	Better understanding of the interactions between climate change impacts and risks, mitigation and adaptation options	RIA	//	20		6.00 to 7.00	3	15/04/2021	07/09/2021	20 000 000,00
1	Climate science	HORIZON-CL5-2021-D1-01-06	Supporting and standardising climate services	CSA	//	10		Around 10.00	1	15/04/2021	07/09/2021	10 000 000,00
1	Climate science	HORIZON-CL5-2021-D1-01-07	Improved economic methods for decision-making on climate and environmental policies	RIA	//	6		Around 3.00	2	15/04/2021	07/09/2021	6 000 000,00
1	Climate science	HORIZON-CL5-2021-D1-01-08	Restoration of natural wetlands, peatlands and floodplains as a strategy for fast mitigation benefits: pathways, trade-offs and co-benefits	RIA	//	20		6.00 to 7.00	3	15/04/2021	07/09/2021	20 000 000,00
1	Climate science	HORIZON-CL5-2021-D1-01-09	The contribution of forest management to climate action: pathways, trade-offs and co-benefits	RIA	//	18		Around 6.00	3	15/04/2021	07/09/2021	18 000 000,00
1	Climate science	HORIZON-CL5-2022-D1-01-01-two-stage	Carbon Dioxide Removal approaches	RIA - 2 stage	//		21	Around 7.00	3	12/10/2021	27/09/2022	21 000 000,00
1	Climate science	HORIZON-CL5-2022-D1-01-02-two-stage	Socio-economic risks of climate change in Europe	RIA - 2 stage	//		10	Around 5.00	2	12/10/2021	27/09/2022	10 000 000,00
1	Climate science	HORIZON-CL5-2022-D1-01-03-two-stage	Social science for land-use strategies in the context of climate change and biodiversity challenges	RIA - 2 stage	//		20	6.00 to 7.00	3	12/10/2021	27/09/2022	20 000 000,00
1	Climate science	HORIZON-CL5-2022-D1-02-01	Verification and reconciliation of estimates of climate forcers	RIA	//		15	Around 5.00	3	12/10/2021	10/02/2022	15 000 000,00
1	Climate science	HORIZON-CL5-2022-D1-02-02	Development of high-resolution Earth system models for global and regional climate change projections	RIA	//		20	Around 10.00	2	12/10/2021	10/02/2022	20 000 000,00
1	Climate science	HORIZON-CL5-2022-D1-02-03	Improvement of Integrated Assessment Models in support of climate policies	RIA	//		15	Around 5.00	3	12/10/2021	10/02/2022	15 000 000,00
1	Climate science	HORIZON-CL5-2022-D1-02-04	Supporting the formulation of adaptation strategies through improved climate predictions in Europe and beyond	RIA	//		20	Around 10.00	2	12/10/2021	10/02/2022	20 000 000,00
1	Climate science	HORIZON-CL5-2022-D1-02-05	Let Nature help to do job : rewilding landscapes for carbon sequestration, climate adaptation and biodiversity support	RIA	//		17	8.00 to 9.00	2	12/10/2021	10/02/2022	17 000 000,00

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2	Batteries	HORIZON-CL5-2021-D2-01-01	Sustainable processing, refining and recycling of raw materials (Batteries Partnership)	RIA	4-5	21		6.00 to 7.00	3	15/04/2021	19/10/2021	21 000 000,00
2	Batteries	HORIZON-CL5-2021-D2-01-02	Advanced high-performance Generation 3b (high capacity / high voltage) Li-ion batteries supporting electro mobility and other applications (Batteries Partnership)	RIA	6 and >	24		6.00 to 8.00	3	15/04/2021	19/10/2021	24 000 000,00
2	Batteries	HORIZON-CL5-2021-D2-01-03	Advanced high-performance Generation 4a, 4b (solid-state) Li-ion batteries supporting electro mobility and other applications (Batteries Partnership)	RIA	5	36		8.00 to 9.00	4	15/04/2021	19/10/2021	36 000 000,00
2	Batteries	HORIZON-CL5-2021-D2-01-04	Environmentally sustainable processing techniques applied to large scale electrode and cell component manufacturing for Li ion batteries (Batteries Partnership)	RIA	5-6	20		Around 5.00	4	15/04/2021	19/10/2021	20 000 000,00
2	Batteries	HORIZON-CL5-2021-D2-01-05	Manufacturing technology development for solid-state batteries (SSB, Generations 4a - 4b batteries) (Batteries Partnership)	RIA	5-6	26		6.00 to 7.00	3	15/04/2021	19/10/2021	26 000 000,00
2	Batteries	HORIZON-CL5-2021-D2-01-06	Sustainable, safe and efficient recycling processes (Batteries Partnership)	RIA	5-6	30		9.00 to 10.00	3	15/04/2021	19/10/2021	30 000 000,00
2	Batteries	HORIZON-CL5-2021-D2-01-07	Support for establishment of R&I ecosystem, developing strategic forward-looking orientations to ensure future skills development, knowledge and technological leadership for accelerated disruptive technology exploration and uptake (Batteries Partnership)	CSA	//	3		Around 3.00	1	15/04/2021	19/10/2021	3 000 000,00
2	Breakthrough technologies	HORIZON-CL5-2021-D2-01-08	Emerging technologies for a climate neutral Europe	RIA	4	20		Around 2.50	8	15/04/2021	19/10/2021	20 000 000,00
2	Breakthrough technologies	HORIZON-CL5-2021-D2-01-09	Methane cracking to usable hydrogen and carbon	RIA	5	15		2.00 to 3.00	2	15/04/2021	19/10/2021	15 000 000,00
2	Breakthrough technologies	HORIZON-CL5-2021-D2-01-10	Technologies for non-CO2 greenhouse gases removal	RIA	//			2.00 to 3.00	2	15/04/2021	19/10/2021	
2	Breakthrough technologies	HORIZON-CL5-2021-D2-01-11	Direct atmospheric carbon capture and conversion	RIA	4-5			2.00 to 3.00	2	15/04/2021	19/10/2021	
2	Citizen and stakeholder engagement	HORIZON-CL5-2021-D2-01-12	Fostering a just transition in Europe	RIA	//	10		3.00 to 4.00	3	15/04/2021	19/10/2021	10 000 000,00
2	Citizen and stakeholder engagement	HORIZON-CL5-2021-D2-01-13	Strengthening Social Sciences and Humanities (SSH) research communities in climate, energy and mobility disciplines	CSA	//	3		2.00 to 3.00	1	15/04/2021	19/10/2021	3 000 000,00
2	Citizen and stakeholder engagement	HORIZON-CL5-2021-D2-01-14	Accelerating the climate transition in difficult contexts: transition super-labs (pilot)	CSA	//	2		2.00 to 3.00	1	15/04/2021	19/10/2021	2 000 000,00
2	Citizen and stakeholder engagement	HORIZON-CL5-2021-D2-01-15	Fostering cooperation between Horizon Europe cluster 5 National Contact Points (NCPs)	CSA	//	2.5		Around 2.50	1	15/04/2021	19/10/2021	2 500 000,00

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2	Communities and cities	HORIZON-CLS-2021-D2-01-16	Co-funded Partnership : Driving Urban Transitions to a sustainable future (DUT)	COFUND	//	18,5	18,5	Around 130.00	1	15/04/2021	19/10/2021	37 000 000,00
2	Batteries	HORIZON-CLS-2022-D2-01-01	Sustainable processing and refining of battery grade graphite (Batteries Partnership)	IA	6-7		10	Around 5.00	2	28/04/2021	06/09/2022	10 000 000,00
2	Batteries	HORIZON-CLS-2022-D2-01-02	Interface and electron monitoring for the engineering of new and emerging battery technologies (Batteries Partnership)	RIA	3-4		10	Around 5.00	2	28/04/2021	06/09/2022	10 000 000,00
2	Batteries	HORIZON-CLS-2022-D2-01-03	Furthering the development of a materials acceleration platform for sustainable batteries (combining AI big data, autonomous synthesis robotics, high throughput testing) (Batteries Partnership)	RIA	3-4		20	Around 20.00	1	28/04/2021	06/09/2022	20 000 000,00
2	Batteries	HORIZON-CLS-2022-D2-01-04	Towards creating an integrated manufacturing value chain in Europe: from machinery development to plant and site integrated design (Batteries Partnership)	IA	6 (machinery dept) & TRL 7 (manufact. plant...)		15	7.00 to 8.00	2	28/04/2021	06/09/2022	15 000 000,00
2	Batteries	HORIZON-CLS-2022-D2-01-05	Next generation technologies for High-performance and safe-by-design battery systems for transport and mobile applications (Batteries Partnership)	RIA	5		15	Around 5.00	2	28/04/2021	06/09/2022	15 000 000,00
2	Batteries	HORIZON-CLS-2022-D2-01-06	Embedding smart functionalities into battery cells (embedding sensing and self-healing functionalities to monitor and self-repair battery cells) (Batteries Partnership)	RIA	2-4		15	Around 5.00	3	28/04/2021	06/09/2022	15 000 000,00
2	Batteries	HORIZON-CLS-2022-D2-01-07	Digitalisation of battery testing, from cell to system level, including lifetime assessment (Batteries Partnership)	RIA	5-6		15	Around 5.00	3	28/04/2021	06/09/2022	15 000 000,00
2	Batteries	HORIZON-CLS-2022-D2-01-08	Coordination of large-scale initiative on future battery technologies (Batteries Partnership)	CSA	//		3	Around 3.00	1	28/04/2021	06/09/2022	3 000 000,00
2	Batteries	HORIZON-CLS-2022-D2-01-09	Physics and data-based battery management for optimised battery utilisation (Batteries Partnership)	RIA	4		15	Around 5.00	3	28/04/2021	06/09/2022	15 000 000,00
2	Batteries	HORIZON-CLS-2022-D2-01-10	Streamlined collection and reversed logistics, fully automated, safe and cost-efficient sorting, dismantling and second use before recycling (Batteries Partnership)	RIA	5-7		15	Around 5.00	3	28/04/2021	06/09/2022	15 000 000,00
2	Communities and cities	HORIZON-CLS-2022-D2-01-11	CIVITAS 2030 – Coordination and support for EU funded urban mobility innovation	CSA	//		5	4.00 to 5.00	1	28/04/2021	06/09/2022	5 000 000,00

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3	Renewable energy	HORIZON-CL5-2021-D3-01-01	Demonstration of wave energy devices to increase experience in real sea condition	IA	//	15		Around 15.00	1	15/04/2021	26/08/2021	15 000 000,00
3	Renewable energy	HORIZON-CL5-2021-D3-01-02	Sustainability and educational aspects for renewable energy and renewable fuel technologies	CSA	//	10		Around 2.50	4	15/04/2021	26/08/2021	10 000 000,00
3	Renewable energy	HORIZON-CL5-2021-D3-01-03	Market Uptake Measures of renewable energy systems	CSA	//	10		Around 2.00	5	15/04/2021	26/08/2021	10 000 000,00
3	Renewable energy	HORIZON-CL5-2021-D3-01-04	Novel Tandem, high efficiency Photovoltaic technologies targeting low cost production with earth abundant materials	RIA	5	20		Around 5.00	4	15/04/2021	26/08/2021	10 000 000,00
3	Energy system, grids and storage	HORIZON-CL5-2021-D3-01-05	Energy Sector Integration: Integrating and combining energy systems to a cost-optimised and flexible energy system of systems	IA	6-8	30		9.00 to 10.00	3	15/04/2021	26/08/2021	30 000 000,00
3	Energy system, grids and storage	HORIZON-CL5-2021-D3-01-06	Increasing energy system flexibility based on sector-integration services to consumers (that benefits system management by DSOs and TSOs)	IA	7-8	25		Around 8.00	3	15/04/2021	26/08/2021	25 000 000,00
3	Energy system, grids and storage	HORIZON-CL5-2021-D3-01-07	Reliability and resilience of the grid: Measures for cybersecurity, vulnerabilities, failures, risks and privacy	IA	5-6	15		7.00 to 8.00	2	15/04/2021	26/08/2021	15 000 000,00
3	Energy system, grids and storage	HORIZON-CL5-2021-D3-01-08	Electricity system reliability and resilience by design: High-Voltage, Direct Current (HVDC)-based systems and solutions	RIA	5-6	15		7.00 to 8.00	2	15/04/2021	26/08/2021	15 000 000,00
3	Energy system, grids and storage	HORIZON-CL5-2021-D3-01-09	Demonstration of superconducting systems and elpipes	IA	8	15		Around 15.00	1	15/04/2021	26/08/2021	15 000 000,00
3	Energy system, grids and storage	HORIZON-CL5-2021-D3-01-10	Demonstration of advanced Power Electronics for application in the energy sector	IA	5-6	10		Around 5.00	2	15/04/2021	26/08/2021	10 000 000,00
3	Energy system, grids and storage	HORIZON-CL5-2021-D3-01-11	Laying down the basis for the demonstration of a Real Time Demonstrator of Multi-Vendor Multi-Terminal HVDC with Grid Forming Capability: Coordinated action	CSA	//	1		Around 1.00	1	15/04/2021	26/08/2021	1 000 000,00
3	Energy system, grids and storage	HORIZON-CL5-2021-D3-01-12	Establish the grounds for a common European energy data space	IA	5-7	32		Around 8.00	4	15/04/2021	26/08/2021	32 000 000,00
3	Energy system, grids and storage	HORIZON-CL5-2021-D3-01-13	Reinforcing digitalisation related know how of local energy ecosystems	CSA	//	4		Around 4.00	1	15/04/2021	26/08/2021	4 000 000,00
3	Energy system, grids and storage	HORIZON-CL5-2021-D3-01-14	Interoperability community	CSA	//	5		Around 5.00	1	15/04/2021	26/08/2021	5 000 000,00

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3	CCUS	HORIZON-CL5-2021-D3-01-15	Integration of CCUS in hubs and clusters, including knowledge sharing activities	CSA	//	2		Around 2.00	1	15/04/2021	26/08/2021	2 000 000,00
3	CCUS	HORIZON-CL5-2021-D3-01-16	Cost reduction of CO2 capture (new or improved technologies)	RIA	6	30		10.00 to 15.00	2	15/04/2021	26/08/2021	30 000 000,00
3	Cross-cutting issues - energy	HORIZON-CL5-2021-D3-01-17	Support to the activities of the European Geological Services	CSA	//	20		Around 20.00	1	15/04/2021	26/08/2021	20 000 000,00
3	Cross-cutting issues - energy	HORIZON-CL5-2021-D3-01-18	Support to the activities of the ETIPs and technology areas of the SET-Plan	CSA	//	9,80		Around 1.00	10	15/04/2021	26/08/2021	9 800 000,00
3	Cross-cutting issues - energy	HORIZON-CL5-2021-D3-01-19	Clean Energy Transition	COFUND	//	35	35	Around 210.00	1	15/04/2021	26/08/2021	70 000 000,00
3	Renewable energy	HORIZON-CL5-2021-D3-02-01	AU-EU Water Energy Food Nexus	RIA	4	5		Around 2.50	2	02/09/2021	05/01/2022	5 000 000,00
3	Renewable energy	HORIZON-CL5-2021-D3-02-02	Next generation of renewable energy technologies	RIA	3-4	33		Around 3.00	11	02/09/2021	05/01/2022	33 000 000,00
3	Renewable energy	HORIZON-CL5-2021-D3-02-03	Hybrid catalytic conversion of renewable energy to carbon-neutral fuels	RIA	3-4	10		Around 3.30	3	02/09/2021	05/01/2022	10 000 000,00
3	Renewable energy	HORIZON-CL5-2021-D3-02-04	Physics and aerodynamics of atmospheric flow of wind for power production	RIA	5	18		Around 6.00	3	02/09/2021	05/01/2022	18 000 000,00
3	Renewable energy	HORIZON-CL5-2021-D3-02-05	Wind energy in the natural and social environment	RIA	5	10		Around 3.00	3	02/09/2021	05/01/2022	10 000 000,00
3	Renewable energy	HORIZON-CL5-2021-D3-02-06	Novel approaches to concentrated solar power (CSP)	RIA	//	9		Around 3.00	3	02/09/2021	05/01/2022	9 000 000,00
3	Renewable energy	HORIZON-CL5-2021-D3-02-07	Stable high performance Perovskite Photovoltaics	RIA	5	15		Around 5.00	3	02/09/2021	05/01/2022	15 000 000,00

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3	Renewable energy	HORIZON-CL5-2021-D3-02-08	Cost-effective micro-CHP and hybrid heating systems	RIA	5	10		3.00 to 5.00	2	02/09/2021	05/01/2022	10 000 000.00
3	Renewable energy	HORIZON-CL5-2021-D3-02-09	Carbon-negative sustainable biofuel production	RIA	4-5	15		Around 5.00	3	02/09/2021	05/01/2022	15 000 000.00
3	Renewable energy	HORIZON-CL5-2021-D3-02-10	Innovative foundations, floating substructures and connection systems for floating PV and ocean energy devices	RIA	4-5	10		Around 3.50	3	02/09/2021	05/01/2022	10 000 000.00
3	Renewable energy	HORIZON-CL5-2021-D3-02-11	Development of hydropower equipment for hidden hydropower	RIA	5	10		3.00 to 5.00	2	02/09/2021	05/01/2022	10 000 000.00
3	Renewable energy	HORIZON-CL5-2021-D3-02-12	Innovation on floating wind energy deployment optimized for deep waters and different sea basins (Mediterranean Sea, Black Sea, Baltic Sea, North-east Atlantic Ocean)	IA	7	50		Around 16.00	3	02/09/2021	05/01/2022	50 000 000.00
3	Renewable energy	HORIZON-CL5-2021-D3-02-13	Demonstration pilot lines for alternative and innovative PV technologies (Novel c-Si tandem, thin film tandem, bifacial, CPV, etc.)	IA	7	45		Around 15.00	3	02/09/2021	05/01/2022	45 000 000.00
3	Renewable energy	HORIZON-CL5-2021-D3-02-14	Demonstration of large-scale CHP technologies for a shift to the use of biogenic residues and wastes	IA	7	10		Around 10.00	1	02/09/2021	05/01/2022	10 000 000.00
3	Renewable energy	HORIZON-CL5-2021-D3-02-15	Solutions for more sustainable geothermal energy	RIA	5	10		Around 5.00	2	02/09/2021	05/01/2022	10 000 000.00
3	Renewable energy	HORIZON-CL5-2021-D3-02-16	Innovative biomethane production as an energy carrier and a fuel	IA	6-7	20		Around 10.00	2	02/09/2021	05/01/2022	20 000 000.00
3	Renewable energy	HORIZON-CL5-2022-D3-01-01	Demonstration of cost-effective advanced biofuel technologies utilizing existing industrial plants	IA	6-7		20	Around 10.00	2	14/10/2021	23/02/2022	20 000 000.00
3	Renewable energy	HORIZON-CL5-2022-D3-01-02	Demonstration of innovative materials, supply cycles, recycling technologies to increase the overall circularity of wind energy technology and to reduce the primary use of critical raw materials	IA	6-7		40	Around 13.00	3	14/10/2021	23/02/2022	40 000 000.00
3	Renewable energy	HORIZON-CL5-2022-D3-01-03	Advanced manufacturing of Integrated PV	IA	7		32	Around 16.00	2	14/10/2021	23/02/2022	32 000 000.00
3	Renewable energy	HORIZON-CL5-2022-D3-01-04	Demonstrate the use of high temperature geothermal reservoirs to provide energy storage for the energy system	IA	7		20	Around 20.00	1	14/10/2021	23/02/2022	20 000 000.00
3	Renewable energy	HORIZON-CL5-2022-D3-01-05	Demonstration of innovative plug-and play solutions for system management and renewables storage in off-grid applications	IA	8		10	Around 10.00	1	14/10/2021	23/02/2022	10 000 000.00
3	Renewable energy	HORIZON-CL5-2022-D3-01-06	Novel Agro-Photovoltaic systems	IA	7		10	Around 5.00	2	14/10/2021	23/02/2022	10 000 000.00
3	Renewable energy	HORIZON-CL5-2022-D3-01-07	Demonstration of innovative rotor, blades and control systems for tidal energy devices	IA	7		10	Around 10.00	1	14/10/2021	23/02/2022	10 000 000.00

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3	Energy system, grids and storage	HORIZON-CL5-2022-D3-01-08	Supporting the action of consumers in the energy market and guide them to act as prosumers, communities and other active forms of active participation in the energy activities	IA	6-8		18	5.00 to 6.00	3	14/10/2021	23/02/2022	18 000 000,00
3	Energy system, grids and storage	HORIZON-CL5-2022-D3-01-09	Real Time Demonstrator of Multi-Vendor Multi-Terminal VSC-HVDC with Grid Forming Capability (in support of the offshore strategy)	IA	6-7		55	Around 55.00	1	14/10/2021	23/02/2022	55 000 000,00
3	Energy system, grids and storage	HORIZON-CL5-2022-D3-01-10	Interoperable solutions for flexibility services using distributed energy storage	IA	5-7		7	2.00 to 3.00	3	14/10/2021	23/02/2022	7 000 000,00
3	Energy system, grids and storage	HORIZON-CL5-2022-D3-01-11	Demonstration of innovative forms of storage and their successful operation and integration into innovative energy systems and grid architectures	IA	6-7		30	7.00 to 8.00	4	14/10/2021	23/02/2022	30 000 000,00
3	Energy system, grids and storage	HORIZON-CL5-2022-D3-01-12	Replicable solutions for a cross sector compliant energy ecosystem	IA	6-7		35	8.00 to 9.00	4	14/10/2021	23/02/2022	35 000 000,00
3	Energy system, grids and storage	HORIZON-CL5-2022-D3-01-13	Energy system modelling, optimisation and planning tools	RIA	//		6	Around 6.00	1	14/10/2021	23/02/2022	6 000 000,00
3	Energy system, grids and storage	HORIZON-CL5-2022-D3-01-14	Thermal energy storage solutions	IA	6-7		30	7.00 to 8.00	4	14/10/2021	23/02/2022	30 000 000,00
3	CCUS	HORIZON-CL5-2022-D3-01-15	Decarbonising industry with CCUS	IA	7-8		58	Around 29.00	2	14/10/2021	23/02/2022	58 000 000,00
3	Renewable energy	HORIZON-CL5-2022-D3-02-01	Digital solutions for defining synergies in international renewable energy value chains	RIA	5		9	Around 3.00	3	26/05/2022	27/10/2022	9 000 000,00
3	Renewable energy	HORIZON-CL5-2022-D3-02-02	AU-EU Energy System Modelling	RIA	//		5	Around 2.50	2	26/05/2022	27/10/2022	5 000 000,00
3	Renewable energy	HORIZON-CL5-2022-D3-02-03	Innovative renewable energy carrier production for heating from renewable energies	IA	7		10	Around 10.00	1	26/05/2022	27/10/2022	10 000 000,00
3	Renewable energy	HORIZON-CL5-2022-D3-02-04	Technological interfaces between solar fuel technologies and other renewables	RIA	4		10	3.00 to 5.00	2	26/05/2022	27/10/2022	10 000 000,00

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3	Renewable energy	HORIZON-CL5-2022-D3-02-05	Renewable energy carriers from variable renewable electricity surplus and carbon emissions from energy consuming sectors	IA	7		20	Around 10.00	2	26/05/2022	27/10/2022	20 000 000,00
3	Renewable energy	HORIZON-CL5-2022-D3-02-06	Direct renewable energy integration into process energy demands of the chemical industry	RIA	4-5		10	3.00 to 5.00	2	26/05/2022	27/10/2022	10 000 000,00
3	Renewable energy	HORIZON-CL5-2022-D3-02-07	Renewable energy incorporation in agriculture and forestry	IA	6-7		15	Around 7.50	2	26/05/2022	27/10/2022	15 000 000,00
3	Renewable energy	HORIZON-CL5-2022-D3-02-08	Demonstration of complete value chains for advanced biofuel and non-biological renewable fuel production	IA	6-7		20	Around 10.00	2	26/05/2022	27/10/2022	20 000 000,00
3	Renewable energy	HORIZON-CL5-2022-D3-03-01	Innovative components and/or sub-systems for CSP plants and/or concentrating solar thermal installations	IA	6-7		16.5	Around 5.50	3	6/09/2022	10/01/2023	16 500 000,00
3	Renewable energy	HORIZON-CL5-2022-D3-03-02	Best international practice for scaling up sustainable biofuels	RIA	4-5		9	Around 3.00	3	6/09/2022	10/01/2023	9 000 000,00
3	Renewable energy	HORIZON-CL5-2022-D3-03-03	Efficient and circular artificial photosynthesis	RIA	5		10	3.00 to 5.00	2	6/09/2022	10/01/2023	10 000 000,00
3	Renewable energy	HORIZON-CL5-2022-D3-03-04	Integrated wind farm control	RIA	5		18	Around 6.00	3	6/09/2022	10/01/2023	18 000 000,00
3	Renewable energy	HORIZON-CL5-2022-D3-03-05	Novel Thin Film (TF) technologies targeting high efficiencies	RIA	5		20	Around 5.00	4	6/09/2022	10/01/2023	20 000 000,00
3	Renewable energy	HORIZON-CL5-2022-D3-03-06	Efficient and low-emission technologies for industrial use of combustion and gasification systems from low-value biogenic residues and wastes	RIA	5		10	3.00 to 5.00	2	6/09/2022	10/01/2023	10 000 000,00
3	Renewable energy	HORIZON-CL5-2022-D3-03-07	Development of algal and renewable fuels of non-biological origin	RIA	4-5		15	Around 5.00	3	6/09/2022	10/01/2023	15 000 000,00
3	Renewable energy	HORIZON-CL5-2022-D3-03-08	Development of digital solutions for existing hydropower operation and maintenance	RIA	5		9	3.00 to 4.50	3	6/09/2022	10/01/2023	9 000 000,00
3	Renewable energy	HORIZON-CL5-2022-D3-03-09	Recycling end of life PV module	IA	7		20	6.00 to 7.00	3	6/09/2022	10/01/2023	20 000 000,00

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4	Buildings	HORIZON-CL5-2021-D4-01-01	Advanced energy performance assessment and certification	IA	6-7	10		3.00 to 5.00	2	15/04/2021	19/10/2021	10 000 000,00
4	Buildings	HORIZON-CL5-2021-D4-01-02	Industrialisation of deep renovation workflows for energy-efficient buildings	IA	8	16		5.00 to 8.00	2	15/04/2021	19/10/2021	16 000 000,00
4	Buildings	HORIZON-CL5-2021-D4-01-03	Advanced data-driven monitoring of building stock energy performance	IA	8	10		3.00 to 5.00	2	15/04/2021	19/10/2021	10 000 000,00
4	Industry	HORIZON-CL5-2021-D4-01-04	Full-scale demonstration of heat upgrade technologies with supply temperature in the range 90 - 160 °C	IA	7-8	16		Around 8.00	2	15/04/2021	19/10/2021	16 000 000,00
4	Industry	HORIZON-CL5-2021-D4-01-05	Industrial excess (waste) Heat-to-Power conversion based on organic Rankine cycles	IA	6-7	14		10.00 to 14.00	1	15/04/2021	19/10/2021	14 000 000,00
4	Buildings	HORIZON-CL5-2021-D4-02-01	Demonstrating integrated technology solutions for buildings with performance guarantees (Build4People)	IA	6-7	15		5.00 to 7.50	2	2/09/2021	25/01/2022	15 000 000,00
4	Buildings	HORIZON-CL5-2021-D4-02-02	Cost-effective, sustainable multi-functional and/or prefabricated holistic renovation packages, integrating RES and including re-used and recycled materials (Build4People)	IA	7	22		9.00 to 11.00	2	2/09/2021	25/01/2022	22 000 000,00
4	Buildings	HORIZON-CL5-2021-D4-02-03	Strengthening European coordination and exchange for innovation uptake towards sustainability, quality, circularity and social inclusion in the built environment as a contribution to the new European Bauhaus (Build4People)	CSA	//	1		Around 1.00	1	2/09/2021	25/01/2022	1 000 000,00
4	Buildings	HORIZON-CL5-2022-D4-01-01	Demand response in energy-efficient residential buildings	IA	6-7		12	4.00 to 6.00	2	28/04/2022	06/09/2022	12 000 000,00
4	Buildings	HORIZON-CL5-2022-D4-01-02	Renewable-intensive, energy positive homes	IA	6-7		12	4.00 to 6.00	2	28/04/2022	06/09/2022	12 000 000,00
4	Buildings	HORIZON-CL5-2022-D4-01-03	Smarter buildings for better energy performance	IA	8		12	4.00 to 6.00	2	28/04/2022	06/09/2022	12 000 000,00
4	Industry	HORIZON-CL5-2022-D4-01-04	Development and pilot demonstration of heat upgrade technologies with supply temperature in the range 150-250°C	RIA	5		10	3.00 to 5.00	2	28/04/2022	06/09/2022	10 000 000,00
4	Industry	HORIZON-CL5-2022-D4-01-05	Development of high temperature thermal storage for industrial applications	RIA	4-5		8	3.00 to 4.00	2	28/04/2022	06/09/2022	8 000 000,00
4	Buildings	HORIZON-CL5-2022-D4-02-01	Designs, materials and solutions to improve resilience, preparedness & responsiveness of the built environment for climate adaptation (Build4People)	IA	6-7		15	5.00 to 7.50	2	6/09/2022	24/01/2023	15 000 000,00
4	Buildings	HORIZON-CL5-2022-D4-02-02	Solutions for the sustainable, resilient, inclusive and accessible regeneration of neighbourhoods enabling low carbon footprint lifestyles and businesses (Build4People)	IA	6-7		15	5.00 to 7.50	2	6/09/2022	24/01/2023	15 000 000,00
4	Buildings	HORIZON-CL5-2022-D4-02-03	Sustainable and resource-efficient solutions for an open, accessible, inclusive, resilient and low-emission cultural heritage: prevention, monitoring, management, maintenance, and renovation (Build4People)	RIA	5		20	4.00 to 5.00	4	6/09/2022	24/01/2023	20 000 000,00
4	Buildings	HORIZON-CL5-2022-D4-02-04	Smart-grid ready and smart-network ready buildings, acting as active utility nodes (Build4People)	IA	7		18	6.00 to 9.00	2	6/09/2022	24/01/2023	18 000 000,00
4	Buildings	HORIZON-CL5-2022-D4-02-05	More sustainable buildings with reduced embodied energy / carbon, high life-cycle performance and reduced life-cycle costs (Build4People)	IA	6-7		18	6.00 to 9.50	2	6/09/2022	24/01/2023	18 000 000,00

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5	2ZERO	HORIZON-CL5-2021-D5-01-01	Nextgen vehicles: Innovative zero emission BEV architectures for regional medium freight haulage (2ZERO)	IA	7-8	45		10.00 to 15.00	3	15/04/2021	07/09/2021	45 000 000,00
5	2ZERO	HORIZON-CL5-2021-D5-01-02	Nextgen EV components: Integration of advanced power electronics and associated controls (2ZERO)	RIA	5-6	20		4.00 to 6.00	4	15/04/2021	07/09/2021	20 000 000,00
5	2ZERO	HORIZON-CL5-2021-D5-01-03	System approach to achieve optimised Smart EV Charging and V2G flexibility in mass-deployment conditions (2ZERO)	RIA	5-7	25		7.00 to 10.00	3	15/04/2021	07/09/2021	25 000 000,00
5	2ZERO	HORIZON-CL5-2021-D5-01-04	LCA and design for sustainable circularity - holistic approach for zero-emission mobility solutions and related battery value chain (2ZERO & Batteries Partnership)	CSA	-	4		Around 4.00	1	15/04/2021	07/09/2021	4 000 000,00
5	Aviation	HORIZON-CL5-2021-D5-01-05	Greenhouse gas aviation emissions reduction technologies towards climate neutrality by 2050	RIA	2-4	25		2.00 to 6.00	6	15/04/2021	07/09/2021	25 000 000,00
5	Aviation	HORIZON-CL5-2021-D5-01-06	Next generation digital aircraft transformation in design, manufacturing, integration and maintenance	RIA	2-4 ou + si justifié	25		3.00 to 6.00	5	15/04/2021	07/09/2021	25 000 000,00
5	Waterborne transport	HORIZON-CL5-2021-D5-01-07	Enabling the safe and efficient on-board storage and integration within ships of large quantities of ammonia and hydrogen fuels (ZEWTP Partnership)	IA	6-7	20		Around 10.00	2	15/04/2021	07/09/2021	20 000 000,00
5	Waterborne transport	HORIZON-CL5-2021-D5-01-08	Enabling the full integration of very high power fuel cells in ship design using co-generation and combined cycle solutions for increased efficiency with multiple fuels (ZEWTP Partnership)	RIA	5	15		Around 15.00	1	15/04/2021	07/09/2021	15 000 000,00
5	Waterborne transport	HORIZON-CL5-2021-D5-01-09	CSA identifying waterborne sustainable fuel deployment scenarios (ZEWTP Partnership)	CSA	-	1		Around 0.50	1	15/04/2021	07/09/2021	500 000,00
5	Waterborne transport	HORIZON-CL5-2021-D5-01-10	Innovative on-board energy saving solutions (ZEWTP Partnership)	RIA	5	20		Around 5.00	4	15/04/2021	07/09/2021	20 000 000,00
5	Waterborne transport	HORIZON-CL5-2021-D5-01-11	Hyper powered vessel battery charging system (ZEWTP Partnership)	IA	6-7	14		Around 7.00	2	15/04/2021	07/09/2021	14 000 000,00
5	Waterborne transport	HORIZON-CL5-2021-D5-01-12	Assessing and preventing methane slip from LNG engines in all conditions within both existing and new vessels (ZEWTP Partnership)	IA	7	7		Around 7.00	1	15/04/2021	07/09/2021	7 000 000,00
5	Waterborne transport	HORIZON-CL5-2021-D5-01-13	Digital Twin models to enable green ship operations (ZEWTP Partnership)	RIA	5	7		Around 7.00	1	15/04/2021	07/09/2021	7 000 000,00
5	Waterborne transport	HORIZON-CL5-2021-D5-01-14	Proving the feasibility of a large clean ammonia marine engine (ZEWTP Partnership)	IA	6-7	10		Around 10.00	1	15/04/2021	07/09/2021	10 000 000,00

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5	Health and environment	HORIZON-CL5-2021-D5-01-15	Development and demonstration of cost affordable and adaptable retrofit solutions for tailpipe and brake polluting emissions	IA	8	10		4.00 to 5.00	2	15/04/2021	07/09/2021	10 000 000,00
5	Health and environment	HORIZON-CL5-2021-D5-01-16	Assessment of noise and particle emissions of L category vehicles from real driving conditions	RIA	5-6	5		4.00 to 5.00	1	15/04/2021	07/09/2021	5 000 000,00
5	ZZERO	HORIZON-CL5-2022-D5-01-01	Modular multi-powertrain zero-emission systems for HDV (BEV and FCEV) for efficient and economic operation (ZZERO)	IA	7-8		55	15.00 to 20.00	3	02/12/2021	26/04/2022	55 000 000,00
5	ZZERO	HORIZON-CL5-2022-D5-01-02	Nextgen EV components: High efficiency and low cost electric motors for circularity and low use of rare resources (ZZERO)	RIA	5-7		20	3.00 to 6.00	4	02/12/2021	26/04/2022	20 000 000,00
5	ZZERO	HORIZON-CL5-2022-D5-01-03	New generation of full electric urban and peri-urban Bus Rapid Transit systems to strengthen climate-friendly mass transport (ZZERO)	IA	7-8		25	20.00 to 25.00	1	02/12/2021	26/04/2022	25 000 000,00
5	ZZERO	HORIZON-CL5-2022-D5-01-04	Simulating Road Transport research and innovation dissemination and implementation in Europe and around the World	CSA	-		2	Around 2.00	1	02/12/2021	26/04/2022	2 000 000,00
5	Aviation	HORIZON-CL5-2022-D5-01-05	Towards a silent and ultra-low local air pollution aircraft	RIA	2-4		20	2.00 to 5.00	5	02/12/2021	26/04/2022	20 000 000,00
5	Aviation	HORIZON-CL5-2022-D5-01-06	Digital aviation technologies for new aviation business models, services, emerging global threats and industrial competitiveness	RIA	2-4		20	2.00 to 5.00	5	02/12/2021	26/04/2022	20 000 000,00
5	Aviation	HORIZON-CL5-2022-D5-01-07	European Aviation Research Policy in support to EU policies and initiatives	RIA	2-4		5	0.50 to 2.50	3	02/12/2021	26/04/2022	5 000 000,00
5	Cross-cutting issues - transport	HORIZON-CL5-2022-D5-01-08	Support for dissemination events in the field of Transport Research	CSA	-		2	Around 1.50	1	02/12/2021	26/04/2022	1 500 000,00
5	Waterborne transport	HORIZON-CL5-2022-D5-02-01	Exploiting electrical energy storage systems and better optimising large battery electric power within fully battery electric and hybrid ships (ZEWTP Partnership)	IA	7		16	Around 8.00	2	02/12/2021	26/04/2022	16 000 000,00
5	Waterborne transport	HORIZON-CL5-2022-D5-02-02	Innovative non-battery electric energy storage systems on-board vessels (ZEWTP Partnership)	RIA	5		15	Around 5.00	3	02/12/2021	26/04/2022	15 000 000,00
5	Waterborne transport	HORIZON-CL5-2022-D5-02-03	Exploiting renewable energy for shipping, in particular focusing on the potential of wind energy (ZEWTP Partnership)	RIA	5		18	Around 9.00	2	02/12/2021	26/04/2022	18 000 000,00
5	Waterborne transport	HORIZON-CL5-2022-D5-02-04	Transformation of the existing fleet towards greener operations through retrofitting (ZEWTP Partnership)	IA	7-8		20	Around 5.00	4	02/12/2021	26/04/2022	20 000 000,00
5	Waterborne transport	HORIZON-CL5-2022-D5-02-05	Seamless safe logistics through an autonomous waterborne freight feeder loop service	RIA	5		15	Around 15.00	1	02/12/2021	26/04/2022	15 000 000,00
5	Waterborne transport	HORIZON-CL5-2022-D5-02-06	Computational tools for shipbuilding	IA	7-8		7	Around 7.00	1	02/12/2021	26/04/2022	7 000 000,00
5	Health and environment	HORIZON-CL5-2022-D5-02-07	Air quality impact of engine-emitted volatile, semi volatile and secondary particles	RIA	5		7	2.50 to 3.00	3	02/12/2021	26/04/2022	7 000 000,00

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6	CCAM	HORIZON-CL5-2021-D6-01-01	More powerful and reliable on-board perception and decision-making technologies addressing complex environmental conditions (CCAM Partnership)	IA	6-7	15		6.00 to 8.00	2	15/04/2021	19/10/2021	15 000 000,00
6	CCAM	HORIZON-CL5-2021-D6-01-02	Common approaches for the safety validation of CCAM systems (CCAM Partnership)	RIA	5	15		12.00 to 15.00	1	15/04/2021	19/10/2021	15 000 000,00
6	CCAM	HORIZON-CL5-2021-D6-01-03	Physical and Digital Infrastructure (PDI), connectivity and cooperation enabling and supporting CCAM (CCAM Partnership)	IA	6-7	18		7.00 to 9.00	2	15/04/2021	19/10/2021	18 000 000,00
6	CCAM	HORIZON-CL5-2021-D6-01-04	Cyber secure and resilient CCAM (CCAM Partnership)	RIA	5	12		5.00 to 6.00	2	15/04/2021	19/10/2021	12 000 000,00
6	CCAM	HORIZON-CL5-2021-D6-01-05	Analysis of socio-economic and environmental impacts and assessment of societal, citizen and user aspects for needs based CCAM solutions (CCAM Partnership)	RIA	-	8		3.00 to 4.00	2	15/04/2021	19/10/2021	8 000 000,00
6	CCAM	HORIZON-CL5-2021-D6-01-06	Framework for better coordination of large-scale demonstration pilots in Europe and EU-wide knowledge base (CCAM Partnership)	RIA	-	6		5.00 to 6.00	1	15/04/2021	19/10/2021	6 000 000,00
6	Multimodal transport, infrastructure, logistics	HORIZON-CL5-2021-D6-01-07	More efficient and effective multimodal freight transport nodes to increase flexibility, service visibility and reduce the average cost of freight transport	IA	7-8	15		7.00 to 8.00	2	15/04/2021	19/10/2021	15 000 000,00
6	Multimodal transport, infrastructure, logistics	HORIZON-CL5-2021-D6-01-08	New delivery methods and business/operating models to green the last mile and optimise road transport	IA	-	15		7.00 to 8.00	2	15/04/2021	19/10/2021	15 000 000,00
6	Multimodal transport, infrastructure, logistics	HORIZON-CL5-2021-D6-01-09	Climate resilient and environmentally sustainable transport infrastructure, with a focus on inland waterways	IA	7	18		Around 6.00	3	15/04/2021	19/10/2021	18 000 000,00
6	Transport safety	HORIZON-CL5-2021-D6-01-10	Testing safe lightweight vehicles and improved safe human-technology interaction in the future traffic system	RIA	5-6	12		4.00 to 5.00	3	15/04/2021	19/10/2021	12 000 000,00
6	Transport safety	HORIZON-CL5-2021-D6-01-11	Radical improvement of road safety in low and medium income countries in Africa	RIA	5-6	8		4.00 to 5.00	2	15/04/2021	19/10/2021	8 000 000,00
6	Transport safety	HORIZON-CL5-2021-D6-01-12	Controlling infection on large passenger ships	RIA	5	8		3.00 to 5.00	2	15/04/2021	19/10/2021	8 000 000,00
6	Transport safety	HORIZON-CL5-2021-D6-01-13	Safe automation and human factors in aviation – intelligent integration and assistance	IA	6	12		4.00 to 8.00	2	15/04/2021	19/10/2021	12 000 000,00
6	CCAM	HORIZON-CL5-2022-D6-01-01	European demonstrators for integrated shared automated mobility solutions for people and goods (CCAM Partnership)	IA	7		46	20.00 to 23.00	2	14/10/2021	12/01/2022	46 000 000,00

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6	CCAM	HORIZON-CL5-2022-D6-01-02	Reliable occupant protection technologies and HMI solutions to ensure the safety of highly automated vehicles (CCAM Partnership)	RIA	5		8	6.00 to 8.00	1	14/10/2021	12/01/2022	8 000 000,00
6	CCAM	HORIZON-CL5-2022-D6-01-03	Human behavioural model to assess the performance of CCAM solutions compared to human driven vehicles (CCAM Partnership)	RIA	4		10	4.00 to 5.00	1	14/10/2021	12/01/2022	10 000 000,00
6	CCAM	HORIZON-CL5-2022-D6-01-04	Integrate CCAM services in fleet and traffic management systems (CCAM Partnership)	IA	6-7		10	4.00 to 5.00	2	14/10/2021	12/01/2022	10 000 000,00
6	CCAM	HORIZON-CL5-2022-D6-01-05	Artificial Intelligence (AI): Explainable and trustworthy concepts, techniques and models for CCAM (CCAM Partnership)	RIA	5		12	5.00 to 6.00	2	14/10/2021	12/01/2022	12 000 000,00
6	Transport safety	HORIZON-CL5-2022-D6-01-06	Predictive safety assessment framework and safer urban environment for vulnerable road users	RIA	5-6		12	Around 4.00	3	14/10/2021	12/01/2022	12 000 000,00
6	Transport safety	HORIZON-CL5-2022-D6-01-07	More resilient aircraft and increased survivability	IA	6		8	4.00 to 8.00	1	14/10/2021	12/01/2022	8 000 000,00
6	Transport safety	HORIZON-CL5-2022-D6-01-08	Safer navigation and tackling containership fires	IA	-		12	3.50 to 6.00	2	14/10/2021	12/01/2022	12 000 000,00
6	Multimodal transport, infrastructure, logistics	HORIZON-CL5-2022-D6-02-01	Logistics networks integration and harmonisation through operational connectivity to optimise freight flows and drive logistics to climate neutrality	IA	6-7		15	7.00 to 8.00	2	28/04/2022	06/09/2022	15 000 000,00
6	Multimodal transport, infrastructure, logistics	HORIZON-CL5-2022-D6-02-02	Urban logistics and planning: anticipating urban freight generation and demand including digitalisation of urban freight	IA	-		15	7.00 to 8.00	2	28/04/2022	06/09/2022	15 000 000,00
6	Multimodal transport, infrastructure, logistics	HORIZON-CL5-2022-D6-02-03	Smart enforcement for resilient, sustainable and more efficient transport operations	RIA	-		8	Around 4.00	2	28/04/2022	06/09/2022	8 000 000,00
6	Multimodal transport, infrastructure, logistics	HORIZON-CL5-2022-D6-02-04	Accelerating the deployment of new/shared mobility services for the next decade	IA	7-8		20	8.00 to 10.00	2	28/04/2022	06/09/2022	20 000 000,00
6	Multimodal transport, infrastructure, logistics	HORIZON-CL5-2022-D6-02-05	Advanced multimodal network and traffic management for seamless door-to-door mobility of passengers and freight transport	RIA	5-6		15	4.00 to 5.00	3	28/04/2022	06/09/2022	15 000 000,00
6	Multimodal transport, infrastructure, logistics	HORIZON-CL5-2022-D6-02-06	Smart and efficient ways to construct, maintain and decommission with zero emissions from transport infrastructure	IA	7		10	Around 5.00	2	28/04/2022	06/09/2022	10 000 000,00
6	Multimodal transport, infrastructure, logistics	HORIZON-CL5-2022-D6-02-07	New concepts and approaches for resilient freight transport and logistics networks against disruptive events (including pandemics)	RIA	7		8	Around 4.00	2	28/04/2022	06/09/2022	8 000 000,00

Avertissement :

Ces informations, données à titre indicatif, ne sont pas définitives et sont encore susceptibles d'évoluer jusqu'à la publication officielle du programme de travail prévue mi-avril.