

Horizon Europe

Cluster 5 - Climate, Energy and Mobility

No.	Calls	Deadline	Duration	Fund	QR Code
1	Sustainable processing, refining and recycling of raw materials (Batteries Partnership)	19 Oct 21	N/A	7,000,000	
2	Advanced high-performance Generation 3b (high capacity / high voltage) Li-ion batteries supporting electro mobility and other applications (Batteries Partnership)	19 Oct 21	N/A	8,000,000	
3	Advanced high-performance Generation 4a, 4b (solid-state) Li-ion batteries supporting electro mobility and other applications (Batteries Partnership)	19 Oct 21	N/A	9,000,000	
4	Environmentally sustainable processing techniques applied to large scale electrode and cell component manufacturing for Li ion batteries (Batteries Partnership)	19 Oct 21	N/A	5,000,000	
5	Manufacturing technology development for solid-state batteries (SSB, Generations 4a - 4b batteries) (Batteries Partnership)	19 Oct 21	N/A	7,000,000	
6	Sustainable, safe and efficient recycling processes (Batteries Partnership)	19 Oct 21	N/A	10,000,000	
7	Emerging technologies for a climate neutral Europe	19 Oct 21	N/A	2,500,000	

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8	Methane cracking to usable hydrogen and carbon	19 Oct 21	N/A	3,000,000	
9	Technologies for non- CO2 greenhouse gases removal	19 Oct 21	N/A	3,000,000	
10	Direct atmospheric carbon capture and conversion	19 Oct 21	N/A	3,000,000	
11	Fostering a just transition in Europe	19 Oct 21	N/A	4,000,000	
12	Establish the grounds for a common European energy data space	19 Oct 21	N/A	8,000,000	
13	Clean Energy Transition	19 Oct 21	N/A	70,000,000	
14	More powerful and reliable on-board perception and decision-making technologies addressing complex environmental conditions (CCAM Partnership)	19 Oct 21	N/A	8,000,000	

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15	Common approaches for the safety validation of CCAM systems (CCAM Partnership)	19 Oct 21	N/A	15,000,000	
16	Physical and Digital Infrastructure (PDI), connectivity and cooperation enabling and supporting CCAM (CCAM Partnership)	19 Oct 21	N/A	9,000,000	
17	Analysis of socio-economic and environmental impacts and assessment of societal, citizen and user aspects for needs based CCAM solutions (CCAM Partnership)	19 Oct 21	N/A	4,000,000	
18	More efficient and effective multimodal freight transport nodes to increase flexibility, service visibility and reduce the average cost of freight transport	19 Oct 21	N/A	8,000,000	
19	New delivery methods and business/operating models to green the last mile and optimise road transport	19 Oct 21	N/A	8,000,000	
20	Climate resilient and environmentally sustainable transport infrastructure, with a focus on inland waterways	19 Oct 21	N/A	7,500,000	
21	Testing safe lightweight vehicles and improved safe human-technology interaction in the future traffic system	19 Oct 21	48 Months	7,500,000	

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22	Controlling infection on large passenger ships	19 Oct 21	N/A	5,000,000	
23	Safe automation and human factors in aviation – intelligent integration and assistance	19 Oct 21	N/A	8,000,000	
24	Advanced energy performance assessment and certification	19 Oct 21	N/A	5,000,000	
25	Industrialisation of deep renovation workflows for energy-efficient buildings	19 Oct 21	N/A	8,000,000	
26	Advanced data-driven monitoring of building stock energy performance	19 Oct 21	N/A	5,000,000	
27	Full-scale demonstration of heat upgrade technologies with supply temperature in the range 90 - 160°C	19 Oct 21	N/A	8,000,000	
28	Industrial excess (waste) Heat-to-Power conversion based on organic Rankine cycles	19 Oct 21	N/A	14,000,000	

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29	Cyber secure and resilient CCAM (CCAM Partnership)	19 Oct 21	N/A	6,000,000	
30	Framework for better coordination of large-scale demonstration pilots in Europe and EU-wide knowledge base (CCAM Partnership)	19 Oct 21	N/A	6,000,000	
31	Reliability and resilience of the grid: Measures for vulnerabilities, failures, risks and privacy	5 Jan 22	N/A	8,000,000	
32	Electricity system reliability and resilience by design: High-Voltage, Direct Current (HVDC)-based systems and solutions	5 Jan 22	N/A	8,000,000	
33	Novel tandem, high efficiency Photovoltaic technologies targeting low cost production with earth abundant materials	5 Jan 22	N/A	5,000,000	
34	Increasing energy system flexibility based on sector-integration services to consumers (that benefits system management by DSOs and TSOs)	5 Jan 22	N/A	8,000,000	
35	Demonstration of superconducting systems and elpipes	5 Jan 22	N/A	15,000,000	

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36	Demonstration of advanced Power Electronics for application in the energy sector	5 Jan 22	N/A	5,000,000	
37	Cost reduction of CO2 capture (new or improved technologies)	5 Jan 22	N/A	15,000,000	
38	Demonstration of wave energy devices to increase experience in real sea condition	5 Jan 22	N/A	15,000,000	
39	Energy Sector Integration: Integrating and combining energy systems to a cost-optimised and flexible energy system of systems	5 Jan 22	N/A	10,000,000	
40	Demonstrating integrated technology solutions for buildings with performance guarantees (Built4People)	25 Jan 22	N/A	7,500,000	
41	Cost-effective, sustainable multi-functional and/or prefabricated holistic renovation packages, integrating RES and including re-used and recycled materials (Built4People)	25 Jan 22	N/A	11,000,000	
42	Wind energy in the natural and social environment	23 Feb 22	N/A	3,000,000	

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43	Novel approaches to concentrated solar power (CSP)	23 Feb 22	N/A	3,000,000	
44	Stable high-performance Perovskite Photovoltaics	23 Feb 22	N/A	5,000,000	
45	Cost-effective micro-CHP and hybrid heating systems	23 Feb 22	N/A	5,000,000	
46	Carbon-negative sustainable biofuel production	23 Feb 22	N/A	5,000,000	
47	Innovative foundations, floating substructures and connection systems for floating PV and ocean energy devices	23 Feb 22	N/A	3,500,000	
48	Development of hydropower equipment for hidden hydropower	23 Feb 22	N/A	5,000,000	
49	Innovation on floating wind energy deployment optimized for deep waters and different sea basins (Mediterranean Sea, Black Sea, Baltic Sea, North-east Atlantic Ocean)	23 Feb 22	N/A	16,000,000	

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50	Demonstration of large-scale CHP technologies for a shift to the use of biogenic residues and wastes	23 Feb 22	N/A	10,000,000	
51	Solutions for more sustainable geothermal energy	23 Feb 22	N/A	5,000,000	
52	Innovative biomethane production as an energy carrier and a fuel	23 Feb 22	N/A	10,000,000	
53	Next generation of renewable energy technologies	23 Feb 22	N/A	3,000,000	
54	Hybrid catalytic conversion of renewable energy to carbon-neutral fuels	23 Feb 22	N/A	3,300,000	
55	Physics and aerodynamics of atmospheric flow of wind for power production	23 Feb 22	N/A	6,000,000	

Source: [EC's Funding & Tenders Portal](#)

Updated: data was retrieved on **September 22, 2021**

by the Division of Global Research and Innovation Promotion, the Office of International Affairs and Global Network, Chulalongkorn University