



DRAFTS - HE CALL CALENDAR 2026/2027

Deadline in 2026

Topic ID	Cluster 5 - Climate, Energy and Mobility	Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
HORIZON-CL5-2026-03-D2-02	Development of direct recycling processes	RIA			31									
HORIZON-CL5-2026-03-D3-01	Targeting key value chain components for increasing the competitiveness of renewable energy technologies in Europe	RIA			31									
HORIZON-CL5-2026-03-D3-13	Long-lifetime and optimised use of materials in recyclable Ag and In-free Si PV modules	RIA			31									
HORIZON-CL5-2026-03-D3-14	Industrial processes and equipment for innovative, reliable and scalable tandem technologies	IA			31									
HORIZON-CL5-2026-03-D3-19	Grid forming capabilities for more resilient and RES-based electricity grids	IA			31									
HORIZON-CL5-2026-03-D3-20	Affordable and sustainable primary equipment for Future Ready multi-terminal HVDC Systems	IA			31									
HORIZON-CL5-2026-03-D3-21	Hybrid AI-Control Framework for a next-generation grid-scale energy storage and system integration	IA			31									
HORIZON-CL5-2026-03-D3-22	Novel solutions for off-grid storage of renewable energy for critical infrastructures	RIA			31									
HORIZON-CL5-2026-03-D3-30	Pre-commercial appraisal for CO2 aquifer storage	IA			31									
HORIZON-CL5-2026-07-D1-01	Next generation climate monitoring and related capabilities	RIA				15								
HORIZON-CL5-2026-07-D1-02	Advancing European climate risk assessments	RIA				15								

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HORIZON-CL5-2026-07-D1-03	Economics of climate change and cost of inaction	RIA				15								
HORIZON-CL5-2026-07-D1-04	Fighting disinformation and effectively communicating on climate change	RIA				15								
HORIZON-CL5-2026-07-D1-05	Improving climate and weather models for Africa	RIA				15								
HORIZON-CL5-2026-09-D2-01	Producing battery-grade materials for electrodes through sustainable processing and refining of raw materials or developing bio-based materials	RIA									15			
HORIZON-CL5-2026-09-D2-04	Coordinated topic with India on recycling of EV batteries	IA									15			
HORIZON-CL5-2026-09-D4-01	Researching the technical, social & economic factors impacting the energy performance of Smart Buildings	RIA									15			
HORIZON-CL5-2026-09-D4-02	Low disturbance prefabrication approaches for deep renovation of multi-storey buildings	IA									15			
HORIZON-CL5-2026-09-D4-03	Advanced data platforms to integrate whole life carbon in building information tools, assessments, and certification	IA									15			
HORIZON-CL5-2026-09-D4-04	Validating policies and business models for affordable and sustainable housing	RIA									15			
HORIZON-CL5-2026-09-D4-08	Full-scale demonstration of heat upgrade solutions in industrial processes	IA									15			
HORIZON-CL5-2026-05-D5-01	Large Scale Demonstration of Heavy-Duty Battery Electric Vehicles (HD BEV) towards long-haul logistics operations	IA				14								
HORIZON-CL5-2026-10-D5-02	Energy-efficient software-defined EVs	IA				14								
HORIZON-CL5-2026-5-D5-07	AI-assisted digital aircraft design, manufacturing and MRO, towards a competitive aviation	RIA				14								
HORIZON-CL5-2026-5-D5-11	Scalability of Solid Oxide Fuel Cells for waterborne transport (topic in collaboration between the Zero-Emission	RIA				14								
HORIZON-CL5-2026-10-D5-12	Shipyards of the future	IA				14								
HORIZON-CL5-2026-10-D5-13	Safety of renewable low and zero-carbon waterborne fuels in port areas: risk assessment, regulatory framework, and guidelines for safe bunkering, handling and storage	CSA				14								
HORIZON-CL5-2026-10-D5-14	Ports of the future	IA				14								
HORIZON-CL5-2026-10-D2-03	Integrated Production and Product Development for Next Generation Lithium-based Batteries for Mobility	IA										8		

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HORIZON-CL5-2026-10-D6-01	Flagship-pilot: large-scale demonstrations of CCAM	IA										8		
HORIZON-CL5-2026-10-D6-02	Geopolitical competition and socioeconomic resilience in CCAM: an innovation and policy roadmap for EU leadership	RIA										8		
HORIZON-CL5-2026-10-D6-03	Generative AI for smarter CCAM: enhancing perception, decision-making, and validation	RIA										8		
HORIZON-CL5-2026-10-D6-06	Increasing competitiveness and resilience of multimodal freight transport and logistics for competitive supply chains	IA										8		
HORIZON-CL5-2026-10-D6-07	Supporting sustainable and smart urban mobility in Europe	CSA										8		
HORIZON-CL5-2026-10-D6-09	Road Safety and resilience of rural areas	IA										8		
HORIZON-CL5-2026-10-D6-10	Enhanced resilience in multimodal passenger transport through digital technologies and generative and discriminative AI	IA										8		
HORIZON-CL5-2026-11-D3-03	Strategic Energy Technology (SET) Plan wind energy research and innovation joint programme	IA												1
HORIZON-CL5-2026-11-D3-04	De-risking renewable fuel technologies through transnational pre-commercial procurement of renewable fuel industrial value chains	PCP												1
HORIZON-CL5-2026-11-D3-05	Demonstration of solid biofuel supply and conversion to large scale CHP from fully sustainable regional value chains	IA												1
HORIZON-CL5-2026-11-D3-06	Concentrated solar thermal systems for decarbonising industrial processes	IA												1
HORIZON-CL5-2026-11-D3-07	Resource assessment for deep sedimentary and basement reservoirs	RIA												1
HORIZON-CL5-2026-11-D3-08	Inducement Prize - Lithium production from geothermal plants in Europe	CSA												1
HORIZON-CL5-2026-11-D3-15	Improved system design for innovative PV applications (EUPI-PV Partnership)	IA												1
HORIZON-CL5-2026-11-D3-24	Data sharing to support the training and development of AI foundation models in the energy sector	IA												1
HORIZON-CL5-2026-04-Two-Stage-D3-02	Next generation of renewable energy technologies	RIA			31							20		

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HORIZON-CL5-2026-06-Two-Stage-D5-10	Disruptive Technologies and Innovative Concepts for Energy Saving Onboard of long distance ships	RIA				14						8		
HORIZON-CL5-2026-06-Two-Stage-D5-20	Non-exhaust emissions in road and railway transport	RIA				14						8		
HORIZON-CL5-2026-08-Two-Stage-D1-06	Closing knowledge gaps on Earth system science in support of global and regional assessments and climate policy	RIA				15						8		
Deadline in 2027														
HORIZON-CL5-2027-01-D1-07	Advancing understanding, modelling and prediction of extreme events in a changing climate	RIA				4								
HORIZON-CL5-2027-01-D1-08	Paleoclimate science for a better understanding of Earth system dynamics	RIA				4								
HORIZON-CL5-2027-01-D1-09	Assessing the performance of policy instruments to inform climate change mitigation action	RIA				4								
HORIZON-CL5-2027-01-D1-10	Understanding and avoiding maladaptation to climate change	RIA				4								
HORIZON-CL5-2027-01-D1-11	Africa-EU CO-FUND action on climate	COFUND				4								
HORIZON-CL5-2027-01-D1-12	Better understanding and attribution of land and ocean carbon sources and sinks	RIA				4								
HORIZON-CL5-2027-01-D1-13	Next generation scenarios for informing climate and sustainability transitions	RIA				4								
HORIZON-CL5-2027-02-D2-05	Improvement of Adaptability, Flexibility and Efficiency of Existing Recycling Processes	IA				31								
HORIZON-CL5-2027-02-D2-06	Sustainable and Competitive Cell Production Techniques for Lithium-ion And Sodium-ion Batteries	IA				31								
HORIZON-CL5-2027-02-D3-09	Co-funding Strategic Energy Technology (SET) Plan renewable fuel value chains at EU, national, regional, and local level	COFUND				31								
HORIZON-CL5-2027-02-D3-10	Innovative technologies and solutions to improve wave and tidal energy systems	IA				31								

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HORIZON-CL5-2027-02-D3-11	Renewable Energy Valleys in Africa to increase energy security and energy access in Africa	IA			31									
HORIZON-CL5-2027-02-D3-16	Production technologies for solar photovoltaics beyond the state-of-the-art	IA			31									
HORIZON-CL5-2027-02-D3-25	Large scale operational validation and upscaling of state-of-the-art (Generative) AI tools and models powering a next generation digital energy system	IA			31									
HORIZON-CL5-2027-02-D3-31	Advancements in Direct Air Capture	IA			31									
HORIZON-CL5-2027-02-D3-32	Support to the implementation of an EU policy framework for CO2 transport and storage infrastructure	CSA			31									
HORIZON-CL5-2027-03-D5-03	Data-driven circular economy for e-mobility ecosystem	IA				14								
HORIZON-CL5-2027-03-D5-04	Demonstration of zero emission coaches and buses in long distance operations	IA				14								
HORIZON-CL5-2027-03-D5-05	Higher Voltage, Megawatt Charging System compatible, modular powertrain for Heavy Duty Vehicles (HDV)	IA				14								
HORIZON-CL5-2027-03-D5-06	Fire prevention and mitigation for EVs in confined areas	IA				14								
HORIZON-CL5-2027-03-D5-08	Sustainable aircraft circular design and additive manufacturing, towards a climate neutral aviation	RIA				14								
HORIZON-CL5-2027-03-D5-15	Prospective evaluation of nuclear power potential for shipping	CSA				14								
HORIZON-CL5-2027-03-D5-16	Autonomous vessels in short sea shipping and inland waterways	IA				14								
HORIZON-CL5-2027-03-D5-17	Innovative Solutions for mitigating the environmental impact of waterborne transport in marine and aquatic Ecosystems	RIA				14								
HORIZON-CL5-2027-03-D5-18	Enhanced electric operation and battery durability	IA				14								
HORIZON-CL5-2027-03-D5-19	Onboard renewable energy solutions and energy saving measures to reduce the fuel consumption of ships by at least 55%	IA				14								
HORIZON-CL5-2027-03-D5-21	Assessing the effect of airport operations on air quality and noise in nearby communities	RIA				14								

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HORIZON-CL5-2027-06-D6-04	Holistic solutions for CCAM integration in critical scenarios	RIA										7		
HORIZON-CL5-2027-06-D6-05	European CCAM knowledge hub and tools for safe and scalable deployment	CSA										7		
HORIZON-CL5-2027-06-D6-08	Enhancing Mobility for All: affordable, reliable, and accessible multimodal transport for inclusive rural and urban connectivity – Societal Readiness pilot	IA										7		
HORIZON-CL5-2027-06-D6-11	Enhancing Resilience and Accuracy in Positioning, Navigation, and Timing (PNT) Systems and e-conspicuity solutions	IA										7		
HORIZON-CL5-2027-06-D6-12	Support for dissemination events in the field of Transport Research	CSA										7		
HORIZON-CL5-2027-07-D3-12	Demonstration of hydropower technologies for efficient and forward-looking refurbishment of existing hydropower plants	IA												1
HORIZON-CL5-2027-07-D3-17	Industrial scale up and circularity pathway for IPV technologies	IA												1
HORIZON-CL5-2027-07-D3-18	PV based electrification of the economy: Designing & optimising PV systems supporting industrial electrification and promoting participation in electricity markets	IA												1
HORIZON-CL5-2027-07-D3-26	Advanced TSO control rooms to enhance grid observability, stability and resilience	IA												1
HORIZON-CL5-2027-07-D3-27	Advanced Distribution Management Systems (ADSM) for more efficient and flexible distribution grids	IA												1
HORIZON-CL5-2027-07-D3-28	Integrated Approaches for Retrofitting Infrastructures with Innovative Energy Storage Technologies	IA												1
HORIZON-CL5-2027-07-D3-29	Community of practice - Data-Driven Decision-Making in Energy	CSA												1
HORIZON-CL5-2027-07-D3-33	Delivery of industrial CCUS clusters – Societal Readiness pilot	IA												1
HORIZON-CL5-2027-05-D2-08	Demonstration for Long-duration Battery Energy Storage System	IA									15			

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HORIZON-CL5-2027-07-D4-05	On-site robotic and automated techniques for building renovation and new construction	IA									15			
HORIZON-CL5-2027-05-D4-06	Thermal energy optimisation and waste heat recovery of high energy demand IT rooms in buildings or small edge data centres	IA									15			
HORIZON-CL5-2027-05-D4-07	Integrating circularity in LCA-based modelling frameworks for renovation of buildings	IA									15			
HORIZON-CL5-2027-05-D4-09	Demonstration of industrial excess/waste heat conversion to mechanical or electrical power	IA									15			
HORIZON-CL5-2027-04-Two-Stage-D2-07	Novel approaches towards next-generation battery concepts, leveraging the enabling role of innovative advanced materials	RIA				14							7	
HORIZON-CL5-2027-04-Two-Stage-D5-09	Noise reduction breakthroughs for new ultraefficient aircraft	RIA				14							7	