KLASTR 5 - výzva	Destinace	Otevření / Deadline	Typ akce	Doporučený rozpočet na projekt (mil. €)	Celkový rozpočet na téma (mil. €)	Předpokládaný počet grantů	Partnerství	Lump Sum	FSTP	SSH	SR pilot
2026-11 ENERGY		**4 Aug 2026 / 1 Dec 2026**			**131,5**	**14**					
DESTINATION 3 - témata		**Sustainable, secure and competitive energy supply**			**131,5**	**14**					
HORIZON-CL5-2026-11-D3-04	D3	De-risking renewable fuel technologies through transnational pre-commercial procurement of renewable fuel industrial value chains	PCP	40	40	1					
HORIZON-CL5-2026-11-D3-05	D3	Demonstration of solid biofuel supply and conversion to high efficiency CHP from fully sustainable regional value chains	IA	6,75	13,5	2				x	
HORIZON-CL5-2026-11-D3-06	D3	Resource assessment for deep sedimentary and basement reservoirs	RIA	4,5	18	4		x		x	
HORIZON-CL5-2026-11-D3-14	D3	Improved system design for innovative PV applications	IA	7,5	30	4	EUPI-PV	x		x	
HORIZON-CL5-2026-11-D3-23	D3	Data sharing to support the training and development of AI foundation models in the energy sector	IA	10	30	3					
2027-01 CLIMATE		**17 Nov 2026 / 4 Mar 2027**			**123**	**23**					
DESTINATION 1 - témata		**Climate sciences and responses for the transformation towards climate neutrality**			**123**	**23**					
HORIZON-CL5-2027-01-D1-07	D1	Advancing understanding, modelling and prediction of extreme events in a changing climate	RIA	6	18	3		x			
HORIZON-CL5-2027-01-D1-08	D1	Palaeoclimate science for a better understanding of Earth system dynamics	RIA	7	14	2		x			
HORIZON-CL5-2027-01-D1-09	D1	Assessing the performance of policy instruments to inform climate change mitigation action	RIA	3	9	3		x		x	
HORIZON-CL5-2027-01-D1-10	D1	Understanding and avoiding maladaptation to climate change	RIA	5 - 6	18	3				x	
HORIZON-CL5-2027-01-D1-11	D1	Africa-EU CO-FUND action on climate	COFUND	15	15	1			x		
HORIZON-CL5-2027-01-D1-12	D1	Better understanding and attribution of land and ocean carbon sources and sinks	RIA	5	25	5		x			
HORIZON-CL5-2027-01-D1-13	D1	Next generation scenarios for informing climate and sustainability transitions	RIA	4	24	6		x		x	
2027-02 BATTERIES and ENERGY		**3 Dec 2026 / 31 Mar 2027**			**227,6**	**18**					
DESTINATION 2 - témata		**Cross-sectoral solutions for the climate transition**			**56,6**	**4**					
HORIZON-CL5-2027-02-D2-05	D2	Improvement of Adaptability, Flexibility and Efficiency of Existing Recycling Processes	IA	9,4	18,8	2	Batt4EU				
HORIZON-CL5-2027-02-D2-06	D2	Sustainable and Competitive Cell Production Techniques for Lithium-ion And Sodium-ion Batteries	IA	18,9	37,8	2	Batt4EU				
DESTINATION 3 - témata		**Sustainable, secure and competitive energy supply**			**171**	**14**					
HORIZON-CL5-2027-02-D3-07	D3	Concentrated solar thermal systems for decarbonising industrial processes	IA	6	12	2		x			
HORIZON-CL5-2027-02-D3-08	D3	Co-funding Strategic Energy Technology (SET) Plan renewable fuel value chains at EU, national, regional, and local level	COFUND	30	30	1			x		
HORIZON-CL5-2027-02-D3-09	D3	Innovative technologies and solutions to improve wave and tidal energy systems	IA	43	43	1			x		
HORIZON-CL5-2027-02-D3-10	D3	Renewable Energy Valleys in Africa to increase energy security and energy access in Africa	IA	4,5	9	2					
HORIZON-CL5-2027-02-D3-15	D3	Production technologies for solar photovoltaics beyond the state-of-the-art	IA	12	36	3	EUPI-PV				
HORIZON-CL5-2027-02-D3-24	D3	Large scale operational validation and upscaling of state-of-the-art (Generative) AI tools and models powering a next generation digital energy system	IA	10	20	2					
HORIZON-CL5-2027-02-D3-30	D3	Advancements in Direct Air Capture	IA	8	16	2		x			
HORIZON-CL5-2027-02-D3-31	D3	Support to the implementation of an EU policy framework for CO2 transport and storage infrastructure	CSA	5	5	1		x			
2027-03 MOBILITY		**15 Dec 2026 / 14 Apr 2027**			**131**	**20**					
DESTINATION 5 - témata		**Clean and competitive solutions for all transport modes**			**131**	**20**					
HORIZON-CL5-2027-03-D5-03	D5	Data-driven circular economy for e-mobility ecosystem	IA	5 - 7	24	4	2ZERO	x			
HORIZON-CL5-2027-03-D5-04	D5	Demonstration of zero emission coaches and buses in long distance operations	IA	13,5	13,5	1	2ZERO				
HORIZON-CL5-2027-03-D5-05	D5	Higher Voltage, Megawatt Charging System compatible, modular powertrain for Heavy Duty Vehicles (HDV)	IA	8	16	2	2ZERO	x			
HORIZON-CL5-2027-03-D5-06	D5	Fire prevention and mitigation for EVs in confined areas	IA	8	8	1	2ZERO	x		x	
HORIZON-CL5-2027-03-D5-08	D5	Sustainable aircraft circular design and additive manufacturing, towards a climate neutral aviation	RIA	2,5	5	2		x			
HORIZON-CL5-2027-03-D5-14	D5	Onboard renewable energy solutions and energy saving measures to reduce the fuel consumption of ships by at least 55%	IA	6,5	6,5	1	ZEWT	x			
HORIZON-CL5-2027-03-D5-15	D5	Prospective evaluation of nuclear power potential for shipping	CSA	2	2	1	ZEWT	x			
HORIZON-CL5-2027-03-D5-16	D5	Autonomous vessels in short sea shipping and inland waterways	IA	7,5	15	2		x			
HORIZON-CL5-2027-03-D5-17	D5	Innovative Solutions for mitigating the environmental impact of waterborne transport in marine and aquatic Ecosystems	RIA	7	14	2	ZEWT	x			
HORIZON-CL5-2027-03-D5-18	D5	Enhanced electric operation and battery durability	IA	10	20	2	ZEWT				
HORIZON-CL5-2027-03-D5-20	D5	Assessing the effect of airport operations on air quality and noise in nearby communities	RIA	3,5	7	2		x			
2027-04-Two-Stage BATTERIES and MOBILITY		**15 Dec 2026 / 14 Apr 2027 (1st Stage), 7 Oct 2027 (2nd Stage)**			**53**	**12**					
DESTINATION 2 - témata		**Cross-sectoral solutions for the climate transition**			**48**	**10**					
HORIZON-CL5-2027-04-Two-Stage-D2-07	D2	Novel approaches towards next-generation battery concepts, leveraging the enabling role of innovative advanced materials	RIA	4,8	48	10	Batt4EU a IAM4EU	x			
DESTINATION 5 - témata		**Clean and competitive solutions for all transport modes**			**5**	**2**					
HORIZON-CL5-2027-04-Two-Stage-D5-09	D5	Noise reduction breakthroughs for new ultraefficient aircraft	RIA	2,5	5	2		x			
2027-05 BATTERIES and MOBILITY		**5 May 2027 / 15 Sep 2027**			**95,3**	**14**					
DESTINATION 2 - témata		**Cross-sectoral solutions for the climate transition**			**18,8**	**2**					
HORIZON-CL5-2027-05-D2-08	D2	Demonstration for Long-duration Battery Energy Storage Systems	IA	9,4	18,8	2	Batt4EU				
HORIZON-CL5-2027-02-D3-31	D3	Support to the implementation of an EU policy framework for CO2 transport and storage infrastructure	CSA	5	5	1		x			
DESTINATION 4 - témata		**Efficient, sustainable and inclusive energy use**			**76,5**	**12**					
HORIZON-CL5-2027-05-D4-05	D4	On-site robotic and automated techniques for building renovation and new construction	IA	6,75	20,25	3		x			
HORIZON-CL5-2027-05-D4-06	D4	Thermal energy optimisation and waste heat recovery of high energy demand IT rooms in buildings or small edge data centres	IA	5,25	15,75	3		x			
HORIZON-CL5-2027-05-D4-07	D4	Integrating circularity in LCA-based modelling frameworks for renovation of buildings	IA	6,75	27	4	Built4People	x			
HORIZON-CL5-2027-05-D4-09	D4	Demonstration of industrial excess/waste heat conversion to mechanical or electrical power	IA	6,75	13,5	2		x			
2027-06 MOBILITY		**3 Jun 2027 / 7 Oct 2027**			**37,1**	**7**					
DESTINATION 6 - témata		**Safe, Resilient Transport and Smart Mobility services for passengers and goods**			**37,1**	**7**					
HORIZON-CL5-2027-06-D6-04	D6	Holistic solutions for CCAM integration in critical scenarios	RIA	5,5	5,5	1	CCAM	x			
HORIZON-CL5-2027-06-D6-05	D6	European CCAM knowledge hub and tools for safe and scalable deployment	CSA	4	4	1	CCAM	x			
HORIZON-CL5-2027-06-D6-08	D6	Enhancing Mobility for All: affordable, reliable, and accessible multimodal transport for inclusive rural and urban connectivity	IA	7	21	3		x		x	x
HORIZON-CL5-2027-06-D6-11	D6	Enhancing Resilience and Accuracy in Positioning, Navigation, and Timing (PNT) Systems and e-conspicuity solutions	IA	5	5	1		x			
HORIZON-CL5-2027-06-D6-12	D6	Support for dissemination events in the field of Transport Research	CSA	1,6	1,6	1		x			
2027-07 ENERGY		**4 Aug 2027 / 1 Dec 2027**			**179**	**21**					
DESTINATION 3 - témata		**Sustainable, secure and competitive energy supply**			**179**	**21**					
HORIZON-CL5-2027-07-D3-11	D3	Demonstration of hydropower technologies for efficient and forward-looking refurbishment of existing hydropower plants	IA	8,5	17	2		x			

HORIZON-CL5-2027-07-D3-16	D3	Industrial processes and equipment for innovative, reliable and scalable tandem technologies	IA	9,5	28,5	3	EUPI-PV				
HORIZON-CL5-2027-07-D3-17	D3	PV based electrification of the economy: Designing & optimising PV systems supporting industrial electrification and promoting participation in electricity markets	IA	6	18	3	EUPI-PV	x			
HORIZON-CL5-2027-07-D3-25	D3	Advanced TSO control rooms to enhance grid observability, stability and resilience	IA	9,5	28,5	3					
HORIZON-CL5-2027-07-D3-26	D3	Advanced Distribution Management Systems (ADSM) for more efficient and flexible distribution grids	IA	9,5	28,5	3					
HORIZON-CL5-2027-07-D3-27	D3	Integrated Approaches for Retrofitting Infrastructures with Innovative Energy Storage Technologies	IA	7,5	22,5	3		x			
HORIZON-CL5-2027-07-D3-28	D3	Community of practice - Data-Driven Decision-Making in Energy	CSA	6	6	1		x			
HORIZON-CL5-2027-07-D3-32	D3	Delivery of industrial CCUS clusters	IA	10	30	3				x	x