

CLIMATE, ENVIRONMENT AND MARITIME

Horizon Europe (Climate)

Research and innovation actions aimed at developing mitigation and adaptation strategies and policies to tackle the global climate crisis.

Budget (2021–2027): €10.78 billion ⁽⁷⁾

Key Areas	Climate sciences and responses, earth observation & earth system model data, climate-related tipping points, impacts of hydrogen economy, cloud aerosol interaction, pathways to climate neutrality, local adaptation plans, solar radiation modification, behavioural change & governance towards climate resilience, climate change education, climate change in Africa, international cooperation, methane emissions, inland ice, paleoclimatic science, climate & environmental impact of trade policies, next generation pathways, climate change foresight, climate ecosystem interactions, cross-sectoral solutions for climate, energy and mobility applications including European battery value chain, breakthrough technologies.			
WHO can apply?	<ul style="list-style-type: none"> • EU Member States, associated countries, low- to middle-income countries (see Chapter 8 of the Horizon Europe Programme Guide) • Legal entities: Public or private bodies, natural persons • International organisations <p>Beneficiaries must register in the participant register before submitting applications. For Research and Innovation Actions (RIAs) and Innovation Actions (IAs), consortia must include at least one independent entity established in a Member State and at least two other independent legal entities established in different Member States or associated countries. Legal entities from Member States and associated countries that are public bodies, research organisations or higher education establishments (including private research organisations and higher education establishments) must have a gender equality plan to be eligible.</p>			
WHAT activities can be funded?	<ul style="list-style-type: none"> • R&I projects • Studies • Technology deployment • Close to market projects • Training/capacity building/awareness • Technical assistance 			
Range of EU Contribution	<ul style="list-style-type: none"> • Research and Innovation Actions (RIAs): up to 100% • Innovation Actions (IAs): up to 70% and in specific calls/topics up to 60% (except for non-profit legal entities, where a rate of up to 100% applies) • Coordination and Support Actions (CSAs): up to 100% 			
Links to relevant calls	HE Climate and EU Missions calls for proposals			
Target Technology Readiness Level (TRL)	From 2 (Technology concept formulated) to 8 (System complete and qualified) As detailed in the TRL scale annexed to the Work Programmes of the Horizon Europe EU funding programme .			
Project examples HE Climate & environment featured projects	<p>NAVIGATE (September 2019 – December 2023)</p> <p>The project aimed to advance modelling capability in two directions. Firstly, it improved the representation of transformative structural and technological change in the economy. Secondly, it depicted the distributional implications of climate policies, the impact of climate change and the benefits of mitigation and adaptation strategies in terms of avoided damages and reduced inequality.</p>	<p>MAIA (September 2022 – August 2025)</p> <p>The project seeks to amplify the impact of European climate research by creating synergies between existing projects. It aims to maximise the joint impact of such research by enhancing connections between knowledge and networks. The project will make information more accessible and easier to use. It seeks to expand the reach of knowledge about climate resilience and to make resilient outcomes more economically sustainable.</p>	<p>COMFORT (September 2019 – August 2023)</p> <p>The project offered an integrated approach, examining factors contributing to tipping points in the key areas of marine carbon, oxygen and nutrient cycles as well as marine ecosystems. It combined data analysis and predictive models to create projections of the impact of human actions, including on ocean systems. This allowed policymakers and stakeholders to intervene more effectively with mitigating measures.</p>	<p>EXHAUSTION (June 2019 – January 2024)</p> <p>The project drew on a time-series database in a multi-country observational study with a rich cohort database to investigate the relationship between heat, air pollution and Cardiopulmonary disease (CPD). The project identified how a range of vulnerability factors may affect the probabilities for CPD arising from extreme heat and wildfires and developed advanced adaptation strategies. The consequences of the CPD burden for European economies and the benefits of adaptation were estimated.</p>

⁽⁷⁾ Budget for Cluster 5 all sectors – Climate, Energy and Transport (without UK contribution). With estimated amounts on 2021-27 EU Missions.