



CARTIF

Tópicos Ciudad

CONVOCATORIA GREEN DEAL

11/06/2020

Organización:

- Call especial dentro del H2020
- Energía y Medio-Ambiente
- 11 áreas temáticas
- 20 tópicos
- Gran volumen de financiación

Proceso:

- **Los drafts de los tópicos han sido publicados de manera abierta**
- **Actualmente en fase de consulta pública:**
- *"A stakeholder feedback survey on the call areas ran from 19 May to 3 June. Thank you to all who took part. We received almost 6000 survey responses and 500 documents were uploaded."*
- **Faltan detalles importantes como el tamaño esperado de los proyectos o la financiación por tópico o área.**

AREA OF THE CALL	TOPIC NUMBER	TITLE OF TOPIC	TYPE OF ACTION
Area 1: Increasing Climate Ambition: Cross sectoral challenges	1.1	Preventing and fighting extreme wildfires with the integration and demonstration of innovative means	RIA
	1.2	Towards Climate-Neutral and Socially Innovative Cities	RIA
	1.3	Climate-resilient Innovation Packages for EU regions	IA/CSA
Area 2: Clean, affordable and secure energy	2.1	Demonstration of innovative critical technologies to enable future large-scale deployment of offshore renewable energy technologies (with the possibility to address also hydrogen applications)	IA
	2.2	Develop and demonstrate a 100 MW electrolyser upscaling the link between renewables and industrial applications	IA
Area 3: Industry for a clean and circular economy	3.1	Closing the industrial carbon cycle to combat climate change	IA
	3.2	Demonstration of systemic solutions for the territorial deployment of the circular economy	IA

AREA OF THE CALL	TOPIC NUMBER	TITLE OF TOPIC	TYPE OF ACTION
Area 4: Energy and resource efficient buildings	4.1	Building and renovating in an energy and resource efficient way	IA
Area 5: Sustainable and smart mobility	5.1	Green airports and ports as hubs for sustainable and smart mobility	IA
Area 6: Farm to Fork	6.1	Testing and demonstrating systemic innovations for sustainable food from farm to fork	IA
Area 7: Ecosystems and Biodiversity	7.1	Restoring biodiversity and ecosystem services	RIA
Area 8: Zero-pollution, toxic free environment	8.1	Innovative, systemic zero-pollution solutions to protect health, environment and natural resources from persistent and mobile chemicals	RIA
	8.2	Towards better regulation of chemical and pharmaceutical mixtures: from science to evidence-informed policies	RIA

AREA OF THE CALL	TOPIC NUMBER	TITLE OF TOPIC	TYPE OF ACTION
Area 9: Strengthening our knowledge in support of the EGD	9.1	European Research Infrastructures capacities and services to address European Green Deal challenges	RIA
	9.2	Developing end-user products and services for all stakeholders and citizens supporting climate adaptation and mitigation	RIA/IA
	9.3	A transparent & accessible ocean: Towards a Digital Twin of the Ocean	IA
Area 10: Empowering citizens for the transition towards a climate neutral, sustainable Europe	10.1	European capacities for citizen deliberation and participation for the Green Deal	RIA
	10.2	Behavioural, social and cultural change for the Green Deal	RIA
	10.3	Enabling citizens to act on climate change and environmental protection through education, citizen science, observation initiatives, and civic involvement	RIA/IA
Area 11: International cooperation	11.1	Accelerating demonstration of clean energy solutions in Africa and the Mediterranean	IA/CSA

This action should develop a one-stop shop platform that would provide the necessary technical, regulatory, financial and socio-economic expertise as well as assistance to cities for developing and implementing their climate action plans, and related social innovation action plans.

- Activity 1: Climate action plans and Green Deal innovation
- Activity 2: Financial engineering
- Activity 3: Social innovation and citizens' engagement
- Activity 4: Research and Innovation for climate-neutral transformation of cities

- Solutions for the territorial deployment of the circular economy (including circular bioeconomy) in at least three territorial clusters (socio-economic and environmental system composed of relevant and complementary territorial actors to implement, demonstrate and facilitate the replication of at least one circular systemic solution) to deploys large-scale demonstration project, programme, initiative for the territorial deployment of the circular economy
- Expected large geographical spread within Europe – i.e. at least one cluster per each area of Europe
- One or more of the following sectors should be covered: waste (including bio- and plastic waste), water, food, feed, organic and waste-based fertilisers, wood, terrestrial and aquatic bio-based value chains, packaging, textile, plastics, mobility, logistics, renewable energy use and storage, electrical and electronic equipment, composites, urban planning and use of spaces, building materials, construction and buildings.

4.1: Building and renovating in an energy and resource efficient way

Design of green, positive energy neighborhoods embedded in the spatial, economic, technical, environmental, regulatory and social context of the demonstration sites.

- Energy and resource efficient, seamless industrial construction/renovation workflows from design through to offsite manufacturing, installation and post-construction monitoring
- Sustainable and highly energy-efficient building designs
- Innovative and more energy efficient RES electricity generation in the buildings and at district level combined with urban service facilities (e.g. charging facilities) and highly energy efficient and cost effective RES heating and cooling solutions
- Energy storage systems (e.g. using second life batteries from electric vehicles) without limiting the use of living space (e.g. neighborhoods optimized storage including management systems for optimal integration, flexibility and interoperability with the grid).
- Highly energy-efficient building operation at reduced maintenance costs and long-term performance with the help of digital technologies for monitoring yield, energy system flexibility (matching demand to generation) and “peak shaving” at neighborhoods scale, as well as digital solutions to increase energy efficiency of building systems’ and appliances’ secure operation ensuring optimal comfort for users

- Area A: Green Airports

1. Transport
2. Terminal
3. Energy
4. Cross-cutting aspects

- Area B: Green Ports:

Fuel, logistics, digitalization, passengers and freight flows, legal framework, governance models, Master Plan for future green ports.

Mobilisation and advancement of world-class scientific capacities and resources such as those offered by European Research Infrastructures.

- (a) Support EU leadership in clean energy storage technologies
- (b) European research infrastructures and monitoring networks for greenhouse gases observing, air quality and citizens' health in cities. Pilot implementations in one urban site. (b1 | b2) + (b3)
 - (b1) Enhancing European research infrastructures for greenhouse gases observation.
 - (b2) Enhancing city air quality monitoring networks
 - (b3) Roadmap for upscaling

- Area 1: Enabling citizens to act on climate change and for sustainable development through education
- Area 2: Enabling citizens to act on climate change through better monitoring and observing of the environment and their environmental impacts .



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