



Horizon 2020 - Work Programme 2018-2020

Topics for Circular Economy

The Horizon 2020 work programmes (WPs) for years 2018 - 2020 were designed around four main Focus Areas namely the Focus Area 'Connecting economic and environmental gains - the Circular Economy'.

Further development of a sustainable, resource efficient and competitive economy will require a transition to a more circular economic model with products, processes, services and business models that are designed to maintain the value and utility of materials and resources in the economy for as long as possible. The circular economy solutions should combine a strong environmental rationale with a convincing business logic.

The topics targeted to Circular Economy are resumed in the table below. For details please consult relevant WPs.

Online sources of information

European Commission Participant Portal

<https://ec.europa.eu/research/participants/portal/desktop/en/home.html>

National Contact Points for Climate Action, Environment, Resource Efficiency and Raw Materials

<http://www.ncps-care.eu/>

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Work Programme 2018-2020 Societal Challenge “Climate action, environment, resource efficiency and raw materials” (SC5)

Topic	Title	Year	Type of Project	M€ per project	Type of Call	Deadline
Call Greening the economy in line with the Sustainable Development Goals (SDGs)						
Connecting economic and environmental gains - the circular economy						
CE-SC5-01-2018	Methods to remove hazardous substances and contaminants from secondary raw materials	2018	RIA	3-5	Two-stage	1 st phase: 27 Feb 2018 2 nd phase : 4 Sept 2018
CE-SC5-02-2018	Independent testing programme on premature obsolescence	2018	RIA	3-5	Two-stage	1 st phase 27 Feb 2018 2 nd phase : 4 Sept 2018
CE-SC5-03-2018	Demonstrating systemic urban development for circular and regenerative cities	2018	IA	10	Two-stage	1 st phase: 27 Feb 2018 2 nd phase : 4 Sept 2018
CE-SC5-04a-2019	Building a water-smart economy and society - Symbiosis between industry and water utilities	2019	IA	10-15	Two-stage	1 st phase: 19 Feb 2019 2 nd phase : 4 Set 2019
CE-SC5-04b-2019	Building a water-smart economy and society - Large scale applications with multiple water users at various relevant scales	2019	IA	10-15	Two-stage	1 st phase: 19 Feb 2019 2 nd phase : 4 Sept 2019
CE-SC5-05-2018	Coordinated approaches to funding and promotion of research and innovation for the circular economy	2018	CSA	1	Single-stage	27 Feb 2018
CE-SC5-22-2020	Improving the recovery and recycling of materials from composite and multi-layer products	2020	-	-	-	-
CE-SC5-23-2020	Understanding the transition to circular economy and its implications	2020	-	-	-	-
Raw Materials						
CE-SC5-06-2018	New technologies for the enhanced recovery of by-products	2018	RIA	3-7	Two-stage	1 st phase: 27 Feb 2018 2 nd phase : 4 Sept 2018
CE-SC5-07-2018-2019	Raw materials innovation for the circular economy: sustainable processing, reuse, recycling and recovery schemes a) Sustainable processing and refining of primary and/or secondary raw materials (2018-2019) b) Recycling of raw materials from end-of-life products (2018-2019) c) Recycling of raw materials from buildings (2018-2019) d) Advanced sorting systems for high-performance recycling of complex end-of-life products (2018, 2019)	2018-2019	IA IA IA IA	8-13 8-13 8-13 8-13	Two-stage	2018 1 st phase: 27 Feb 2018 2 nd phase: 4 Sept 2018 2019 1 st phase: 19 Feb 2019 2 nd phase : 4 Sept 2019
CE-SC5-08a-2018	Raw materials policy support actions for the circular economy - Voluntary scheme for certification of treatment facilities for key types of wastes	2018	CSA	2	Single-stage	27 Feb 2018
CE-SC5-08b-2018	Raw materials policy support actions for the circular economy - Resource efficiency in wood processing, recovery and recycling	2018	CSA	3	Single-stage	27 Feb 2018
CE-SC5-08c-2019	Raw materials policy support actions for the circular economy - Responsible sourcing of raw materials in global value chains	2019	CSA	3	Single-stage	19 Feb 2019

CE-SC5-07-2020	Raw materials innovation for the circular economy	2020	-	-	-	-
CE-SC5-08-2020	Raw materials policy support actions for the circular economy: expert network on Critical Raw Materials	2020	-	-	-	-

Work Programme 2018-2020 Societal Challenge “Food security, sustainable agriculture and forestry, marine and maritime and inland water research and the bioeconomy” (SC2)

Topic	Title	Year	Type of Project	M€ per project	Type of Call	Deadline
Call Sustainable Food Security						
Environment and climate-smart food production and consumption						
CE-SFS-24-2019	Innovative and citizen-driven food system approaches in cities	2019	IA	6	Single-stage	23 Jan 2019
CE-SFS-25-2018	Integrated system innovation in valorising urban biowaste	2018	IA	10	Single-stage	13 Feb 2018
Targeted international cooperation						
CE-SFS-36-2020	Diversifying farmers’ income through small bio-based concepts	2020	-	-	-	-
CE-SFS-39-2019	High-quality organic fertilisers from biogas digestate	2019	IA	5	Single-stage	23 Jan 2019
Call Rural Renaissance						
Organising sustainable food and non-food value chains under changing conditions						
CE-RUR-08a-2018	Closing nutrient cycles - Understanding properties and impacts of bio-based fertilisers	2018	RIA	6	Two-stage	1 st phase: 13 Feb 2018 2 nd phase: 11 Sept 2018
CE-RUR-08b-2019	Closing nutrient cycles - Bio-based fertilisers from animal manure	2019	IA	8	Single-stage	23 Jan 2019
CE-RUR-08c-2020	Closing nutrient cycles - Bio-based fertilisers from other by-products of the agro-food or forestry industry	2020	-	-	-	-
CE-RUR-10-2019	Circular bio-based business models for rural communities	2020	IA	10	Single-stage	23 Jan 2019
Call Blue Growth						
CE-BG-06-2019	Sustainable solutions for bio-based plastics on land and sea	2019	IA	9	Single-stage	23 Jan 2019

Work Programme 2018-2020 “Nanotechnologies, advanced materials, advanced manufacturing and processing, biotechnology” (NMPB)

Topic	Title	Year	Type of Project	M€ per project	Type of Call	Deadline
Call Transforming European industry						
Biotechnology						
CE-BIOTEC-04-2018	New biotechnologies for environmental remediation	2018	RIA	5	Single-stage	25 Apr 2018
CE-BIOTEC-05-2019	Microorganism communities for plastics bio-degradation	2019	RIA	5	Single-stage	24 Apr 2019
Factories of the Future						
DT-FoF-06-2019	Refurbishment and re-manufacturing of large industrial equipment	2019	IA	12-15	Single-stage	21 Feb 2019
Call Industrial sustainability						
Sustainable Process Industry (SPIRE)						
CE-SPIRE-01-2020	Industrial symbiosis	2020	IA	-	-	-
CE-SPIRE-02-2018	Processing of material feedstock using non-conventional energy sources	2018	IA	6-10	Single-stage	22 Feb 2018
CE-SPIRE-03-2018	Energy and resource flexibility in highly energy intensive industries	2018	IA (50%)	8-12	Single-stage	22 Feb 2018
CE-SPIRE-04-2019	Efficient integrated downstream processes	2019	IA	10-14	Single-stage	21 Feb 2019
CE-SPIRE-05-2019	Adaptation to variable feedstock through retrofitting	2019	IA (50%)	8-12	Single-stage	21 Feb 2019
CE-SPIRE-07-2020	Recovery of industrial water, thermal energy and substances contained therein	2020	IA	-	-	-
CE-SPIRE-08-2020	Improved Industrial Processing using novel high-temperature resistant materials	2020	RIA	-	-	-
CE-SPIRE-09-2020	Making the most of mineral waste, by-products and recycled material as feed for high volume production	2020	IA	-	-	-
CE-SPIRE-10-2018	Efficient recycling processes for plastic containing materials	2018	IA	6-8	Single-stage	22 Feb 2018
Catalysing the circular economy						
CE-NMBP-24-2018	Catalytic transformation of hydrocarbons	2018	RIA	5-7	Two-stage	1 st phase: 23 Jan 2018 2 nd phase: 28 Jun 2018
CE-NMBP-25-2019	Photocatalytic synthesis	2019	RIA	5-7	Two-stage	1 st phase: 22 Jan 2019 2 nd phase: 03 Sept 2019
CE-NMBP-26-2018	Smart plastic materials with intrinsic recycling properties by design	2018	RIA	4-6	Two-stage	1 st phase: 23 Jan 2018 2 nd phase: 28 Jun 2018

Work Programme 2018-2020 Societal Challenge “Secure, clean and efficient energy” (SC3)

Topic	Title	Year	Type of Project	M€ per project	Type of Call	Deadline
Call Building a low carbon, climate resilient future: Secure, clean and efficient energy						
Enabling near-zero CO₂ emissions from fossil fuel power plants and carbon intensive industries						
CE-SC3-NZE-2-2018	Conversion of captured CO₂	2018	RIA	3-4	Single-stage	6 Sept 2018