



CO₂ VALUE
EUROPE

Innovation Fund

CCU-sector workshop

H2020 Funding opportunities

19th September 2019, Brussels



General information

- Type of action
 - RIA: Research and Innovation Action (100% funding)
 - IA: Innovation Action (70% funding; 100% for non-profit entities)
- Participation
 - At least three different entities from three MS/AC + particular conditions in the topic
- Topic description, guidance and submission
 - Funding & tender opportunities ([link](#))
- National contact points
 - Official national structure to support participation ([link](#))



LC-FNR-13-2020

Deadline	Type	TRL	Budget (proposal)	Budget (topic)
22/01/2020 (stage 1) 08/09/2020 (stage 2)	RIA	3-5	7 M€	20 M€

Bio-based industries leading the way to turning CO₂ emissions into chemicals ([link](#))

Scope

*(i) innovative technologies for conversion of **CO₂** resulting from **biomass-to-bioproducts processing plants** as direct feedstock for the production of added-value chemicals and **their integration into the plant's flowchart...***

*(ii) **biotechnological processes** for the conversion of CO₂ into added value chemicals.*

...include a Life Cycle Assessment...

...address business models, operations and logistics, considering also the possibility of industrial symbiosis...

...explore the socio-economic and regulatory measures required...

*the development of algae-based concepts **is excluded***



LC-SC3-RES-26-2020

Deadline	Type	TRL	Budget (proposal)	Budget (topic)
21/04/2020	RIA	3-5	3-5 M€	8 M€

Development of next generation renewable fuel technologies from CO₂ and renewable energy (Power and Energy to Renewable Fuels) ([link](#))

Scope

... next generation renewable fuels for energy and transport...

...improve substantially (beyond the state-of-the-art), the performance regarding energy efficiency as well as cost of the conversion ...

...direct renewable energy (e.g., sunlight) or renewable electricity and /or heat to liquid or gaseous renewable fuels from CO₂...

...very low engine-out emissions...



LC-SC3-RES-3-2020

Deadline	Type	TRL	Budget (proposal)	Budget (topic)
01/09/2020	RIA	3-4	2-4 M€	10 M€

International Cooperation with USA and/or China on alternative renewable fuels from sunlight for energy, transport and chemical storage ([link](#))

Scope

*... international cooperation with the **USA and/or China** ...*

*...**alternative renewable fuels** for energy and transport through **photochemical/photobiological or electrochemical reaction**...*

...novel photo-catalysis or photo-electro catalysis coupled with CO2 reduction...

...improved light harvesting coupled with improved CO2 reduction efficiency in synthetic biological systems ...

...explore the socio-economic and regulatory measures required...

*...use of external renewable electricity or electricity generated by sunlight with PV or CSP to produce the carriers **is excluded***



LC-SC3-NZE-5-2019-2020

Deadline	Type	TRL	Budget (proposal)	Budget (topic)
01/09/2020	IA	6-7	up to 15 M€	15 M€

Low carbon industrial production using CCUS ([link](#))

Scope

... on **integrating CO2 capture in industrial installations**, whilst addressing the **full CCUS chain**...

...aspects to address are of **technical ... safety... financial...and strategic nature**...

...Technology development has to be balanced by an **assessment of the societal readiness** towards the proposed innovations. ...

...Relevant end **users and societal stakeholders** ...and their concerns and needs will be analysed ...using appropriate techniques ...from the social sciences and humanities, ...

...socio-economic and political **barriers to acceptance and awareness** with a view to regulatory or policy initiatives...

...**international cooperation** is encouraged...

*...Relevant sectors with high CO2 emissions are for example steel, iron and cement making, oil refining, gas processing, hydrogen production, biofuel production and waste incineration plants...



Deadline	Type	TRL	Budget (proposal)	Budget (topic)
05/02/2020	IA	6→7	12-20M€	97.5 M€ (3 topics)

Tapping into the potential of Industrial Symbiosis ([link](#))

Scope

*... prove the potential for **novel symbiotic value chains** in demonstrators involving multiple industrial sectors **in real industrial settings***

*...Management of **side/waste streams** (through e.g. capturing, purification, concentrating, sorting, collecting, exchanging or preparation) **specifically for the use as resource for other plants and companies across sectors and/or across value chains**...*

...Non-technological aspects, ...regulatory issues, ...redefining standards, and new business models, covering ownership, management and fair sharing of benefits, should be considered...



FETPROACT-EIC-05-2019

Deadline	Type	TRL	Budget (proposal)	Budget (topic)
08/10/2019	RIA	1-3	up to 4 M€	87.4 M€

Emerging paradigms and communities ([link](#))

Scope

... cutting-edge **high-risk / high-reward research and innovation** projects that aim to demonstrate a new technological paradigm...

...c) Breakthrough **zero-emissions energy generation for full decarbonization**...

...new directions...for power generation that is clean, compact and low-cost, aimed at stand-alone, mobile or portable uses...in the transport sector (road, air, sea and either for motive or auxiliary needs), for portable uses, in remote places or in emergency situations.

... concepts with ... compact, high energy density and low-cost energy generation capabilities ...usable for specific application contexts....



How can we help

- **Raise awareness on funding opportunities**
- **Ad-hoc advice and assistance in participation**
- **Participate as consortium partners**
 - *Joint participation with nova-Institut GmbH (Germany) depending on consortium needs*
 - *Leading transversal non-technological Work Packages*
 - *Sustainability assessment (LCA, economic feasibility, market potential, social acceptance, etc.)*
 - *Policy recommendations*
 - *Stakeholder involvement*
 - *Communication, dissemination and exploitation planning and implementation*
- **Mobilising members and networks for partner involvement**



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