



R&I Opportunities for Low Carbon Initiatives under RFCS

13-14 June 2019
Dnipro

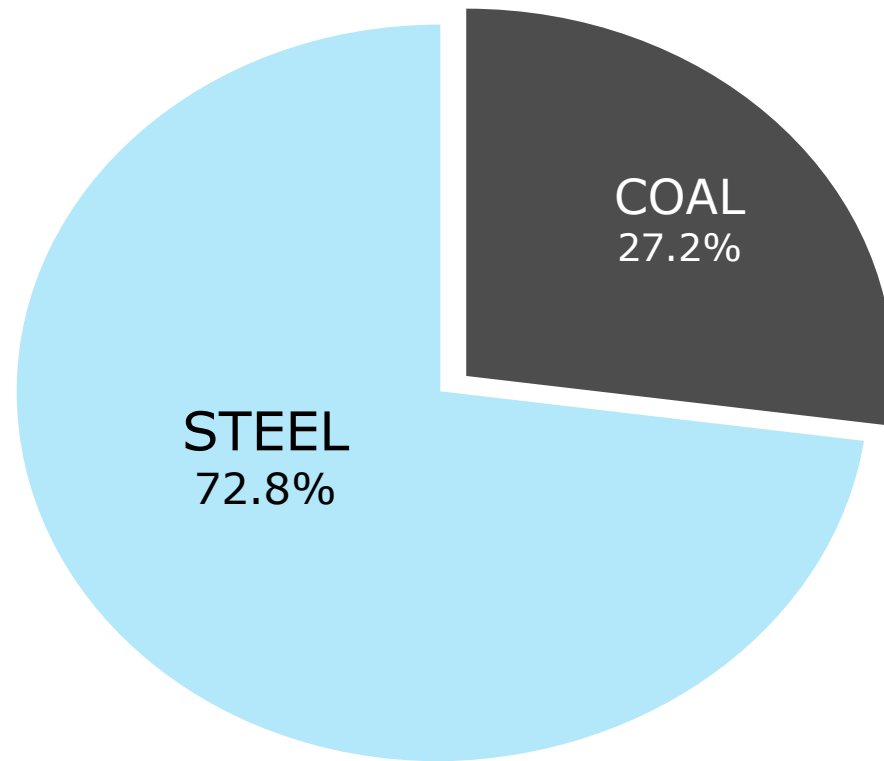
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The RFCS Programme

- Transference of the assets of the ECSC to the EU in 2002 and use their revenues to support the RFCS research programme (now: around 1.8 billion €)
- Around 300 Grant Agreements running simultaneously
- > 700 M€ funding since 2003 \approx 1 B€ total spending
- Every year around € 40 million (average) is made available to universities, research centres and industry to fund projects (NO taxpayer).
- Complementary to other European financial instruments for research and innovation, such as Horizon 2020

RFCS funding allocation





European
Commission

Type of Activity	Description	RFCS co-funding	Duration	Consortium
Research projects	Investigative or experimental work	$\leq 60\%$	No specific requirement (indicative duration is 36 or 42 months)	Minimum three independent legal entities established in at least two different EU Member States
Pilot & Demonstration projects	Construction and/or operation of an installation at pilot or demonstration scale	$\leq 50\%$	No specific requirement (indicative duration is 36 or 42 months)	Minimum two independent legal entities established in at least two different EU Member States
Accompanying measures	Dissemination or promotion of knowledge gained	$\leq 100\%$	No specific requirement (indicative duration is 18 months)	Minimum two independent legal entities established in at least two different EU Member States



Research Projects

Proposals should demonstrate the ability to solve specific scientific or technical problems, as well as the economic and/or scientific technological impact of the results

Pilot & Demonstrations Projects

- *Bridge the gap between Research and Innovation (innovation is considered as the technological implementation of new products or processes within the relevant industrial sector)*
- **No significant research efforts should be included in Pilot and Demonstration projects, as they should focus on the construction and validation of a ready-designed unit.**

Accompanying Measures

- *Contribution to the assessment and enhancement of European or international technical regulations and standards*
- *Valorisation of results that have a direct and immediate potential application at industrial level*
- *Exploitation of new or alternative market possibilities of products and processes*

Who can participate?

- Any legal entity established in the EU28 Member States
- Partners outside EU28 (either candidate or third countries) are entitled to participate but without receiving financial contribution



Typical Project

Industry-driven participation

- ✓ Dedicated and manageable consortium (5/8 partners)
- ✓ Average funding 1 – 2 M€ per project
- ✓ Duration typically 3 – 4 years (shorter for accompanying measures)

Evaluation since 2018

- 3 evaluation criteria for all types of actions (used to be 4)*
- Bonus point can be granted to all types of actions, including Accompanying Measures, if project addresses at least 1 annual priority.
- Cascade mechanism: priority given to 'Excellence'.

*Criteria: Excellence, Impact, Quality and efficiency of the implementation.

Within each criterion, a series of sub-questions helps focusing on the relevant aspects.

Coal Annual Priorities 2019

- ***1.1 Coal Regions in Transition – sustainable energy production and integration, the circular economy and land reclamation.***
- ***1.2 Pilot/Demonstration projects implementing clean coal technologies (CCTs) that meet EU policy objectives.***
- ***1.3 Addressing occupational health and safety or environmental risks during or after coal mine or coal power plant operation.***

Steel Annual Priority 2019

- Steel Priority 1: Pilot/demonstration projects or Accompanying Measures of emerging and innovating technologies leading to industrial efficiency improvements and/or emission reductions.



Successful RFCS project ESTIVAL with Ukrain partner (ongoing)

ESTImation of coal VALue-in-use in terms of CSR under different carbonization conditions (ESTIVAL) intends to address the need for a better understanding of the influence of coal carbonization conditions on Coke Strength after Reaction values (CSR) in order to be competitive in the coal market. (Laboratories worldwide use their own devised methodology for coke making, which is cause for concern since CSR results cannot be compared without difficulty)

Life time project: 2017-2020

Coordinator Arcelormittal Maizieres Research (FR)

4 other partners (DE, ES, PL and **UA (Kharkiv State University)**)