

Co-funded by the European Commission within the Horizon 2020



# Workshop UEFISCDI 20 June 2018

#### Ragnhild Rønneberg

ACT coordinator
The Research Council of Norway

rr@rcn.no

## Summing up – already from the start

- Carbon Capture, Utilisation and Storage (CCUS) is a valuable and natural part of the toolbox for combating climate change
- Knowledge sharing and international cooperation – necessary !
- ACT's goal is to stimulate to projects accelerating the deployment of CCS in
  - Energy sector
  - Energy intensive Industries





## **ACT – Accelerating CCS Technologies**

- Cooperation between Funding agencies/Ministries
- Transnational calls
- 1<sup>st</sup> call for proposals, June 2016:
  - 10 partners from 9 countries cooperate, 1<sup>st</sup> call
  - Top up financing from European Commission for the



- 8 new projects decided for funding in 2017 supported by € 36 M from ACT
- 2<sup>nd</sup> call for proposals, launched 4 June 2018
  - 13 partners, now extended with France, US and an additional Greek partner





#### **Ambition of ACT**

- International cooperation as a tool for accelerating implementation of CCUS
- fund research and innovation projects that can lead to safe and cost effective technology.









## **ACT Kicked off in Madrid February 2016**



Brian Allison, UK signing the CA

ACT-partner countries at the ACT kickoff meeting at MINECO, Spain



## Projects funded by ACT, 2017-2020

Project	Activities	ACT, M €	Norway	Netherlands	UK	Germany	Romania	Switzerland	Spain	Turkey
ALIGN	Chain integration, clusters	14,5	Х	X	Х	X	X			
ELEGANCY	Chain integration, hydrogen	8,9	X	X	X	X		х		
PRE-ACT	CO2 storage, pressure handling	4,5	X	X	X	X				
ACORN	Full chain CCS / infrastructure	2,0	х	X	X					
DETECT	CO2 storage, risk assessment	2,0		X	X	Χ				
ECOBASE	CO2-EOR SouthEast Europe	1,2	X	X			х			Х
GASTECH	Gas switching technology	1,7	X	X			х	X	х	Х
3D-CAPS	3D printed sorbents	1,5	Χ	X			х			

Total budget for 8 projects: € 50 M

ACT supporting: € 36 M

more info at <u>www.act-ccs.eu</u>





#### **ACT – additional activities**

- Knowledge sharing workshops
- Alignment with European CCUS RD&D activities
- Collaboration with European CCUS initiatives
- Strengthen R&D collaboration with Mission Innovation
- Closer cooperation with industry
  - Address industry specific needs in the CCUS field
- More countries/partners are welcome to join ACT!





## **Knowledge Sharing**

- ACT is more than just the single projects
- The projects can learn from each other
- The projects should together with the ACT consortium lead to accelerated CCS deployment in Europe
- Everyone should focus on communication of results to CCUS stakeholders, industry, and decision makers
- Knowledge Sharing Workshop in Romania
   24 October 2017 for funded projects
- Next Workshop in Germany, 13 November 2018
- ...and in Greece in 2019











## The 2<sup>nd</sup> ACT call, 4 June 2018

- Total budget: 22-30 M€ (no Cofund from EC)
- Partners with funding from Germany, Greece, France, The Netherlands, Norway, Romania, Switzerland, Spain, Turkey, UK and USA
- Call text please visit <u>www.act-ccs.eu</u> A great opportunity for anyone who has a unique idea for developing CCUS technology
- Applications must be submitted to the <u>Research Council of Norway</u>
- Due date for proposals, two stage evaluation:
  - pre-proposals: 12 September 2018, 13:00 CEST
  - full proposals: 1 March 2019, 13:00 CET
- The budget includes a new activity: Open call for industrial driven projects (no fixed application date, more flexible approach)





## Scope of the 2<sup>nd</sup> ACT call

- ACT will address the technological, environmental, social and economic challenges required to accelerate CCUS.
- Projects that incorporate or address the Priority Research Directions (PRDs) identified at the Mission Innovation CCUS Challenge Workshop (Houston 2017) will be particularly welcome.
- Projects are also encouraged to address one or several of the research and innovations activities in the SET-Plan CCS and CCU Implementation Plan endorsed by the SET-Plan Steering Group in September 2017.





#### Timeline for the fixed call

- 4 June 2018: Call published
- 12 September 2018 at 13:00 CEST: Due date for submitting preproposals, stage 1. Sketches of how the projects will look like.
- Q4 2018: Feedback on the result of evaluation of stage 1 applications. Invitation to second stage for all applications passing stage 1.
- 1 March 2019 at 13:00 CET: Due date for submitting full proposals, stage 2.
- August 2019: Evaluation of proposals completed. Signing contracts with new projects.
- September 2019: New projects starting
- Q4 2022: Projects closing





TIME INC.

#### ACT webinar 28 June 14:00 CEST



- The webinar is open to everybody
- The agenda is:
  - Presentation of the ACT Call, by RCN (30 minutes)
  - The ACT consortium will answer questions from the audience (60 minutes)
  - The presentation of the ACT call includes:
    - Thematic priorities in the ACT Call
    - How to build a strong consortium
    - How to write an excellent proposal
    - The submission system
    - Evaluation procedures





## How or join the webinar?

If you like to join the webinar
you just send a short e-mail to
Aage Stangeland, <u>ast@rcn.no</u>, at ACT Call
Secretariat

The webinar will be set up as a Skype meeting





#### **ACT** has created a momentum



- 8 high level projects were decided funded in 2017 they run for 3 years - The projects in total cover CCS/CCUS chains
- New projects will be funded in 2019 high expectations to the CCS community to come up with excellent proposals in 2018!
- Brings together expertise from several countries knowledge sharing
- ACT is a tool for achieving the targets set out in the EU SET-Plan CCUS Implementation Plan and in the Mission Innovation Priorities of CCS Research
- Big interest for ACT outside Europe, including USA and Asian countries
- Industry shows interest:
  - Hydrogen production coupled with CCS
  - Pressure management during CO<sub>2</sub> storage





#### Thank You for Your Attention!



Ragnhild Rønneberg, PhD, coordinator of ACT <a href="red">rr@rcn.no</a>
Welcome - visit us at <a href="www.act-ccs">www.act-ccs</a>
Or contact Nicoleta Dumitrache <a href="micoleta.dumitrache@uefiscdi.ro">nicoleta.dumitrache@uefiscdi.ro</a>



