

4th ACT Knowledge Sharing Workshop

6-7 November 2019

Divani Palace Acropolis Hotel

19-25 Parthenonos Street, 117 42 Athens



ACT is an international initiative aiming to accelerate and mature CCUS technology by funding transnational research and innovation projects.

ACT is a collaboration of research and innovation funding organisations in European countries and the USA. The first Call for projects in 2016 resulted in eight international projects within CO₂ Capture, Utilization and Storage (CCUS). The second Call was concluded in spring 2019 and 12 new CCUS projects are being kicked off this autumn.

The ACT consortium will organise the 4th ACT Knowledge Sharing Workshop in Athens, 6-7 November 2019. The aim is to ensure fruitful knowledge sharing and increase collaboration between the ACT funded projects and other CCUS initiatives. CCUS experts outside the ACT consortium and ACT projects are welcome to take part in the knowledge sharing at this event in Athens.

The first day, 6 November, is an open workshop. The second day, 7 November, is an internal workshop for ACT projects.

Program 6 November 2019

Chair: Brian Allison (BEIS, UK)

Morning session

- 08.30 – 09.00 Registration
- 09.00 – 09.10 Welcome by Host country and ACT Coordinator
Athanasios Kyriazis, Secretary General for Research and Technology, GSRT and Ragnhild Rønneberg, Research Council of Norway
- 09.10 – 09.20 CCUS under the new Horizon Europe program
Vassilios Kougionas, The European Commission
- 09.20 – 09.40 CCUS in Greece: potential, development and status
Kyriakos Panopoulos, CERTH, Co-ordinator of the Energy Platform for Smart Specialisation in Greece

ACT-projects – presentations and discussions

- 09.40 – 10.30 ELEGANCY – Enabling a Low-Carbon Economy via Hydrogen and CCS
Svend Tollak Munkejord, SINTEF Energy
- 10.30 – 10.50 Coffee break
- 10.50 – 11.40 ALIGN – Accelerating Low carbon Industrial Growth through CCUS
Peter van Os, TNO
- 11.40 – 12.20 Presentation of the new ACT-2 projects
- 12.20 – 14.00 Lunch and Posters Session**

Afternoon parallel sessions

- | | Session A: Storage
<i>Chair: Gerdi Breembroek</i> | Session B: Capture
<i>Chair: Anna Rosenberg</i> |
|---------------|--|---|
| 14.00 – 14.30 | Pre-ACT – Safe and efficient CO ₂ storage
<i>Peder Eliasson, SINTEF Industry</i> | GASTECH – CO ₂ capture by gas switching technologies
<i>Shahriar Amini, SINTEF Industry</i> |
| 14.30 – 15.00 | DETECT – CO ₂ storage risk mitigation
<i>Marcella Dean, Shell</i> | 3D-CAPS – 3D printing of capture materials
<i>Robert de Boer, ECN/TNO</i> |
| 15.00 – 15.30 | Tea and coffee break | |

Programme 6 November, continued

Closing session: Plenary

15.30 – 16.00	ECOBASE – Establishing CO ₂ enhanced Oil recovery in South Eastern Europe <i>Roman Berenblyum, NORCE</i>
16.00 – 16.30	From ACORN to sapling – Chain integration in the UK, <i>David Pilbeam, Pale Blue Dot</i>
16.30 – 17.30	Wrap-up and key messages Mid-term review of ACT projects, <i>Gerdi Breebroek, RVO</i> ACT impacts, <i>Aage Stangeland, RCN</i> Discussion Chaired by <i>Brian Allison, BEIS</i>
17.30	Informal get-together with the posters, networking opportunities
20.00	Dinner

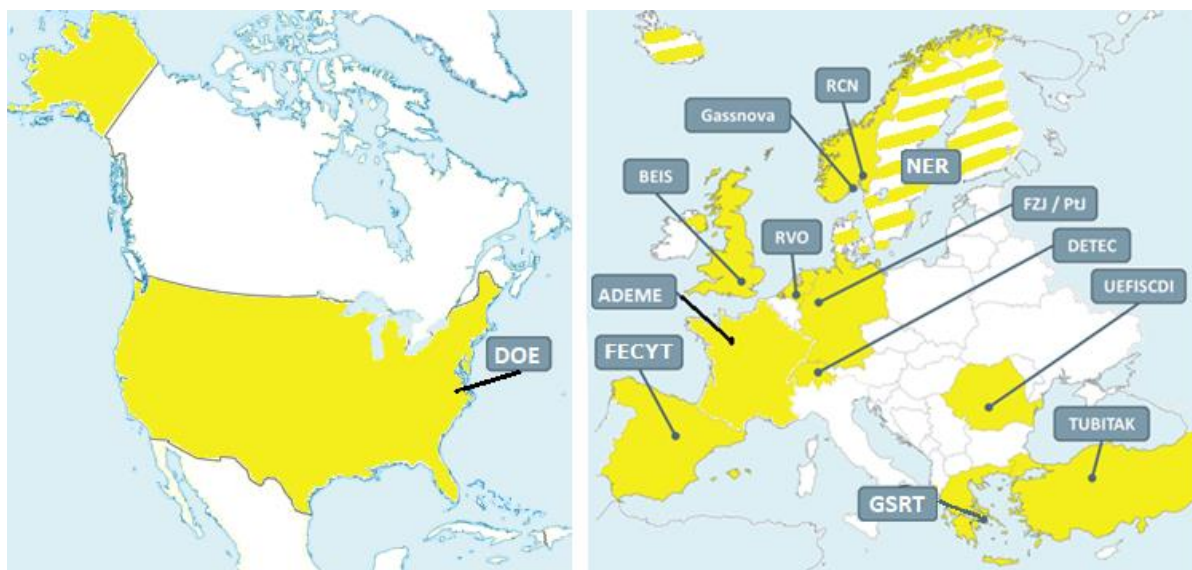
There will be a separate meeting for the ACT projects and the ACT consortium on 7 November

This is ACT

ACT is an international initiative based on the Horizon 2020 European Commission funding scheme. Its aim is to accelerate and mature CCUS technology by making available funds for transnational research and innovation projects.

ACT, coordinated by The Research Council of Norway, is a collaboration of research and innovation funding organisations in Europe and the USA.

Nine European countries started this collaboration in 2015. The first Call for projects took place in 2016. Since then, ACT has expanded its collaboration beyond Europe, with USA now included in the consortium.



The ACT partners are funding agencies from France, Greece, Germany, The Netherlands, Norway, Romania, Spain, Switzerland, Turkey, United Kingdom, DoE. In addition, Nordic Energy Research is an ACT partner.

Why ACT?

- Carbon Capture, Utilisation and Storage (CCUS) is a valuable and necessary part of the toolbox for combating climate change
- Knowledge sharing and international cooperation are necessary ingredients for success

ACT's goal is to stimulate projects accelerating the deployment of CCUS in the energy sector as well as in energy intensive industries

1st Call for Projects

For the first ACT Call, nine European countries together with the European Commission made a total of € 36 M available for eight high quality CCUS research and innovation projects. The following eight projects were offered funding for up to 3 years.

(X's indicates partners in the project. Highlighted X's indicate the country of the project leader)

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

The ACT funding has generated projects worth € 50 M. These projects in total cover all aspects of the CCUS chain. All partners are involved in at least one project. Read more at our web: www.act-ccs.eu

2nd Call for Projects

The 2nd ACT Call was published in June 2018 with a budget up to €30M. The call was a two-stage process with 47 pre-proposals submitted to the first stage and 27 consortia were then invited to submit full proposals in the second stage. The ACT Consortium received 26 full proposals that have been independently evaluated and ranked by international external CCUS experts. Based on this evaluation, the ACT Consortium notified 12 projects, with a combined budget of €31 million, that they were selected to move forward with award negotiations. The ACT Consortium expects to officially announce the awards in autumn 2019 once all contracts/offer letters have been formally signed.

The ACT Calls addresses the technological, environmental, social and economic challenges required to accelerate CCUS

Ambitious Plans

With two successful Calls and projects underway, the ACT partners have established themselves as a new multilateral funding scheme for research and innovation dedicated to CCUS.

ACT is a fit-for-purpose, partner-driven, flexible, and an easy-to-join multi-national funding scheme that serves our ambition to make CCUS a commercially viable climate mitigation technology. We plan to launch additional Calls, with a third Call in 2020.

Funding agencies from new countries are welcome to join ACT!

Stay informed – make contact

Information on Calls and projects being funded are available at the ACT web site www.act-ccs.eu

Questions can be addressed to the ACT coordinator at the Research Council of Norway:

Ragnhild Rønneberg (rr@rcn.no)

Look at www.act-ccs.eu and find your national contact point.