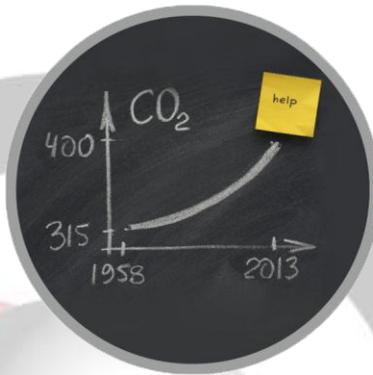


# INTRODUCTION TO THE UK CARBON CAPTURE AND STORAGE RESEARCH CENTRE



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# About the UKCCSRC

The UK Carbon Capture and Storage Research Centre (UKCCSRC) **leads and coordinates a programme of underpinning research on all aspects of carbon capture and storage** (CCS) in support of basic science and UK government efforts on energy and climate change.

The Centre brings together over 240 of the UK's world-class CCS academics and provides a **national focal point for CCS research and development.**

<http://www.ukccsrc.ac.uk>

# Centre funding

- Initial core funding for the UKCCSRC is provided by **£10M** from the **Engineering and Physical Sciences Research Council (EPSRC)** as part of the **RCUK Energy Programme**
- This is complemented by **£3M** in additional funding from the **Department of Energy and Climate Change (DECC)** to establish new capital facilities that will support innovative research
- **10 partner institutions** have contributed **£2.5M**

# How the Centre works

The Centre is a **virtual network** where academics, industry, regulators and others in the sector collaborate to analyse problems, devise and carry out world-leading research, and share delivery.

- We do this by working through **networks** to deliver **impact**
- We bring people and projects **together** to **shape capability**
- We **fund** innovative research to **develop leaders**

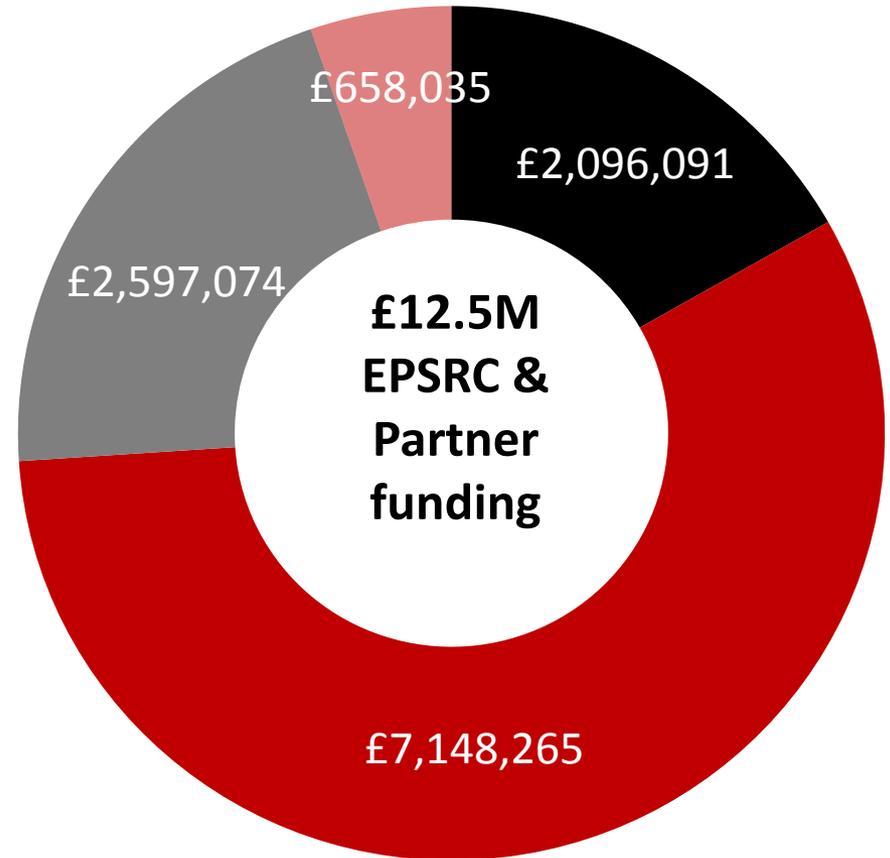
# Centre Membership

- Centre members are UK academics with a **track record in CCS research**: they are either
  - Principal **Investigators** or Co-Investigators on **CCS research grants**, or
  - Have relevant **CCS publications**
- The Centre has **Associate Membership** for individuals from **business/industry, government/policy** and **NGOs**
- The Centre also has an **Early Career Researcher (ECR)** membership for postgraduate research students, post-doctoral staff and new lecturers, supported by a comprehensive ECR programme

[www.ukccsrc.ac.uk/membership](http://www.ukccsrc.ac.uk/membership)

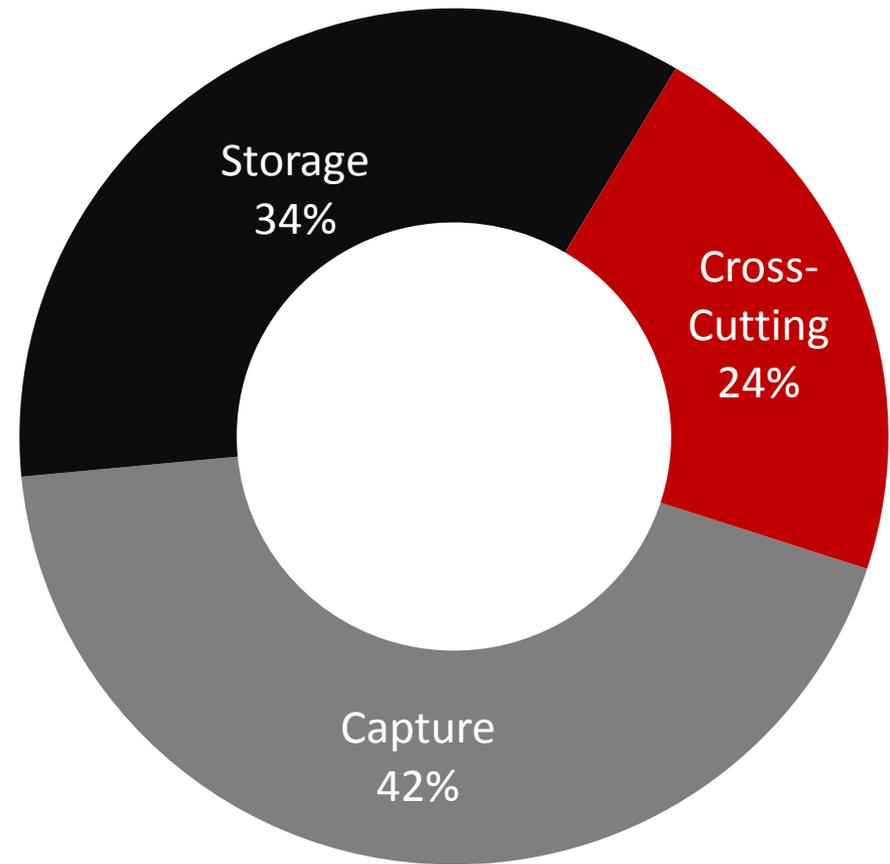
# Strategic priorities

- Create an effective virtual Research Centre
- Deliver a coordinated programme of CCS research
- Develop sustainable CCS research capacity and infrastructure in the UK
- Build effective communication links and networks with CCS researchers and implementers



# UKCCSRC Research Groups

- Members belong to at least one of three research groups
  - **Capture**
  - **Storage**
  - **Cross-cutting issues**
- Groups provide a focal point for the development of new project ideas and collaborations.
- They organise specialist meetings and are key communication channels for the Centre and for external stakeholders



# PACT (Pilot-Scale Advanced Capture Technology) Facilities

- Established with **DECC** and **EPSRC** funding of £5M
- Offer a unique set of pilot-scale combustion, gasification, and post-combustion capture facilities
- Core facilities at **Beighton near Sheffield**  
– joint venture between **University of Leeds and Sheffield**
- Facility at **University of Edinburgh**  
(ACTTROM Advanced Capture Testing in a Transportable Remotely-operated Mini-lab)
- Additional facilities at **Cranfield University**



# Working with Europe

- UKCCSRC is a member of the **European Energy Research Alliance (EERA)** CCS Joint Programme
  - Inform **European Commission** on **research gaps/needs**
  - Co-ordinate research effort across major European Centres of Excellence in CCS
  - Links to infrastructure sharing via **ECCSEL**



# Working with the world

- MOUs with **Carbon Management Canada, SaskPower, Guangdong Low-carbon Technology and Industry Research Centre (GDLRC), CO2CRC, RCN-CCUS and CATO-2**
- Supported FCO visits to **USA** (2010), **Canada** (2012), **Korea** (2013) and
- Mission to **Australia** (2013)
- Strong links with **IEAGHG, GHGT** conference series
- Funding to support Centre members' efforts to develop significant exchanges and **'best with best' collaborations** with overseas academics and research institutions.



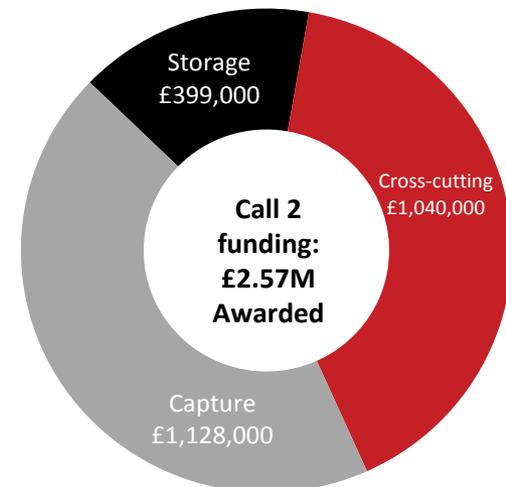
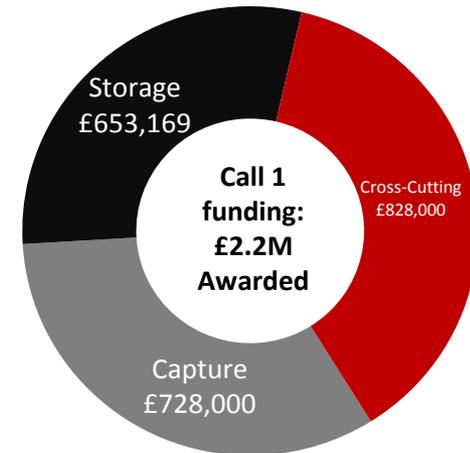
# International CCS Community Network

- Fortnightly **newsletter** to over 1,050 subscribers
- **International Travel Fund** – allowing UK researchers to collaborate globally
- **International Speaker Programme** – Facilitates world-class researchers to speak at UK meetings and build new collaborations in the UK
- The UKCCSRC works with a broad range of **international partners** to advance CCS research and development



# Funding CCS Research

- Centre has committed more than **£4.5M** in **funding** to support CCS research projects
  - **Call 1** awarded **£2.2M** to 13 projects
  - **Call 2** awarded **£2.57M** to 14 projects. Projects started **1st September 2014**



# UKCCSRC avenues for dissemination of research

- Multichannel, multi-media, targeted approach
  - Biannual Meetings
  - Specialist Meetings
  - Webinars
  - UKCCSRC Datahub
  - Website
  - Newsletter
  - Social Media

**THANK YOU**



**@UKCCSRC**



**UKCCSRC group**



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**[www.ukccsrc.ac.uk](http://www.ukccsrc.ac.uk)**