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Integrated life cycle approaches for understanding CCU/S pathways

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Pioneering research and skills

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 around 250 of the UK's world-class CCS **Academics** and 220 **Early Career Researchers** to provide a **national focal point for CCS research and development** and **capacity building**.

There is also an **Associate Membership** programme and a **Network**.

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 help establish new open-access national pilot-scale facilities (www.pact.ac.uk). Partner institutions have contributed £2.5M.

www.ukccsrc.ac.uk

The future of LCA in a carbon-balanced world?

In order to keep within a fixed carbon budget:
Carbon out of the ground = Carbon back into the ground

Permanent carbon storage certificates required for all fossil fuels, limestone etc. to be legally bought and sold

Carbon storage certificates from any source of CO_2 , e.g.:

- Power plants with CO_2 capture
- Industry with CO_2 capture
- Direct air capture of CO_2

Does LCA for Carbon become unnecessary?