

## [New European research to reduce and reuse CO2 in industrial processes](#)

Researchers across Europe have come together to accelerate the development of technologies to reduce carbon dioxide (CO<sub>2</sub>) emissions. Over the next 3 years, a large project will focus on the removal of CO<sub>2</sub> from industrial processes, the conversion of CO<sub>2</sub> to create valuable products, such as methanol, and the safe storage of CO<sub>2</sub> deep underground.

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## [Global taskforce tackling climate change head-on in a bid to 'Pre-ACT' to protect our planet](#)

Key players from Europe, Australia and the USA are joining forces to tackle the challenge of removing CO<sub>2</sub> from the atmosphere and storing it underground in a bid to make a real difference to our future climate. The 'Pressure control and conformance management for safe and efficient CO<sub>2</sub> storage' or 'Pre-ACT' project, aims to improve the cost effectiveness of safe CO<sub>2</sub> storage.

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## [Global patterns of nitrate storage in the unsaturated zone](#)

The unsaturated (vadose) zone between the base of soils and the water table can be an important store of nitrate. Water moves slowly downward through the unsaturated zone and so a large store of nitrate can accumulate if this water contains nitrate derived from surface sources such as fertiliser. Release of this store can affect ground- and surface water quality for decades and it can continue for a long time after changes in farming practice that reduce nitrate leaching.

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## **BGS communications dashboard for October 2017**

Here is a round up of metrics for October 2017. For all social media, the item shown is the most popular this month.

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### **Hidden pollution beneath our feet threatens water supplies worldwide**

Groundwater researchers at the British Geological Survey (BGS) have found a major store of pollution sitting in the rocks beneath our feet that could have severe global-scale consequences for our rivers, water supplies, human health and the economy.