

# REX-CO<sub>2</sub> PROJECT OVERVIEW

REX-CO<sub>2</sub>: Re-using Existing wells for CO<sub>2</sub> storage operations

<https://rex-co2.eu/>

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**REX-CO<sub>2</sub>**  
re-using existing wells

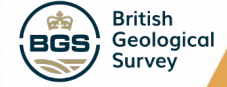
## **Objective: Provide decision makers with mechanisms and information to evaluate re-use potential of existing oil and gas well infrastructure**

### **Technical Approach**

- Development of a well re-use assessment workflow and screening-tool (WP2)
- Assessment of the impact of well re-use on material properties through laboratory experimentation (WP3)
- Demonstrate potential value of well re-use applications by performing assessments on multiple storage sites (WP4)
- Develop recommendations for re-using existing wells (WP5)
- Regulatory, environmental and public acceptance aspects of well re-use for CCUS (WP6)

### **Major Accomplishments**

- Successfully developed a well re-use screening-tool: tool will be publicly released (Aug 2022)
- Assessed the impact of field operations, in-situ stresses and surrounding rocks on well cement (micro-annuli formation, self-healing)
- Key findings of case studies: limitations in data availability, uncertainties in knowledge of corrosion and cement sheath, well interventions will be necessary to re-purpose, structural integrity may be technologically challenge to assess
- Regulatory framework related to well re-use for CCUS is still under development in multiple participating nations
- Multiple recommendations for re-using existing wells are being developed and will be publicly released (Aug 2022)



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Thank you for your attention

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