Developments of CO₂ geological storage in Europe and the role of CO₂GeoNet

Key milestones for CCS development at EU (top) and global (bottom) levels

1991 Creation of IEAGHG
1997 Kyoto Protocol
2003 Creation of CSLF
2005 Launch of ZEP Technology Platform
2008 Large-scale CO₂ injection at Sleipner (Norway)
2008 EU Climate Energy Package (20/20/20)
2008 EU Directive on the geological storage of CO₂
2008 6th large-scale CCS demos
2009 1st NER300 call for financing CCS and renewables demos
2009 EU Directive on the geological storage of CO₂
2009 EII-CCS and EERA-CCS of the SET-Plan
2010 EU Energy Roadmap to 2050
2010 UNFCCC CCS in the CDM
2011 Creation of an ISO Committee on CCS
2012 Large-scale CCS demos in operation?
2013 2nd NER300 call
2013-2014 Industrial deployment?
2013-2014 Large-scale CCS demos in operation?
2015-2020 Ongoing collaboration and agreement since 2008
2020-2030 EU Energy Roadmap to 2050

CO₂GeoNet key dates

CO₂GeoNet - the European Network of Excellence on the geological storage of CO₂

- A reference pan-European scientific body on CO₂ geological storage, a key tool for combating climate change and ocean acidification
- Founded in 2004 under the EC FP6 CO₂GeoNet project, with 13 key research institutes from 7 European countries
- An Association under French law since 2008, active on both the EU and global scene to help enable efficient and safe CO₂ storage
- Opened up membership in 2013 to gain EU-wide coverage and enhanced strength, thanks to the support of the EC FP7 CGS Europe Coordination Action on CO₂ Geological Storage
- Now 25 members spanning 17 European countries forming a network of over 300 researchers
- Multidisciplinary expertise: geology, geophysics, geochemistry, geomechanics, hydrology, microbiology, reservoir engineering, oceanography, and social science
- Masters all aspects of CO₂ storage: site selection & characterization, modelling & monitoring of CO₂ fate and site behaviour, risk assessment —including possible local impacts on humans and ecosystems, and safety protocols

CO₂GeoNet activities:
*Research  *Scientific advice  *Training  *Information and communication

International collaboration:

CSLF
Network recognized since 2005

IEAGHG
Ongoing collaboration and agreement since 2008

GCCSI
Associate member since 2013

UNFCCC
RINGO Observer Organization (Research NGO) since 2013

ISO
Category A Liaison in TC 265* since 2013

*Carbon dioxide capture, transportation, and geological storage

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