

## European Networks on CO<sub>2</sub> Capture and Storage

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Since the 1990's, Europe has included CO<sub>2</sub> Capture and Storage technology (CCS) in its research Framework Programmes. At that time, the mainly anthropogenic nature of climate change was not yet confirmed but there was sufficient concern that development of innovative emission reduction technologies began in order to be ready to implement these techniques when/if needed.

BRGM was involved in the very first European research project 'The underground disposal of carbon dioxide' (FP3) and has since continued to research CCS through major projects, including current H2020 projects. BRGM also has significant experience of collaboration through research networks.

The objectives, as well as some recent achievements and next actions of four key CCS European networks, will be presented:

- **CO<sub>2</sub>GeoNet**, the European Network of Excellence on CO<sub>2</sub> geological storage, an Association registered in France and accredited by UNFCCC as a Research NGO (RINGO) – [www.co2geonet.eu](http://www.co2geonet.eu)
- **EERA JP CCS**, the Joint Programme for CO<sub>2</sub> capture, transport and storage of the European Energy Research Alliance - [www.eera-set.eu/eera-joint-programmes-jps/carbon-capture-and-storage](http://www.eera-set.eu/eera-joint-programmes-jps/carbon-capture-and-storage)
- **ECCSEL**, the European CCS Research Infrastructure - [www.eccsel.org](http://www.eccsel.org)
- **ZEP**, the European Technology Platform for Zero Emission Fossil Fuel Power Plants - [www.zeroemissionsplatform.eu](http://www.zeroemissionsplatform.eu)

The importance of two other networks with an enlarged remit covering integrated and sustainable uses of the underground will also be highlighted:

- **ENeRG**, the European Network for Research on Geo-Energy – [www.energnetwork.eu](http://www.energnetwork.eu)
- **EGS GEEG**, the GeoEnergy Expert Group of the EuroGeoSurveys association of the Geological Surveys of Europe - [www.eurogeosurveys.org/expertgroups/geoenergy](http://www.eurogeosurveys.org/expertgroups/geoenergy)

The actions undertaken by all these networks are key in accelerating the development and implementation of CCS in Europe in accordance with the priorities of the SET Plan (Action 9), supporting national and regional initiatives, and for enabling scientific interaction at a global level. The Paris Agreement, including the highly challenging objective to try to limit global warming to 1.5°C, requires rapid and determined efforts in CCS technology development, knowledge transfer and capacity-building in order to implement worldwide this climate change mitigation technology. Therefore, these networks need to be called upon to play an increasingly important role and stakeholders, depending on their needs or competencies, are invited to use the services these networks offer or to join as active members.