

## Research topic

Underground storage of dissolved CO<sub>2</sub> in a deep saline aquifer coupled with geothermal energy recovery

## Case study

To be identified in France or in Europe

## Leader\* and consortium

Geogreen\*, BRGM, CFG Services, EnerTime, IRENEE (Univ. de Lorraine), LEO (Univ. d'Orléans), GeoRessources (Univ. de Lorraine), PASSAGES (Univ. de Pau et des Pays de l'Adour), Partnering in Innovation, Inc. (USA)

## Budget

2.3 M€

## Funding

782 503 €

## Timescale

06/2016-11/2017

## Contacts

Yann Le Gallo: [yig@geogreen.fr](mailto:yig@geogreen.fr)

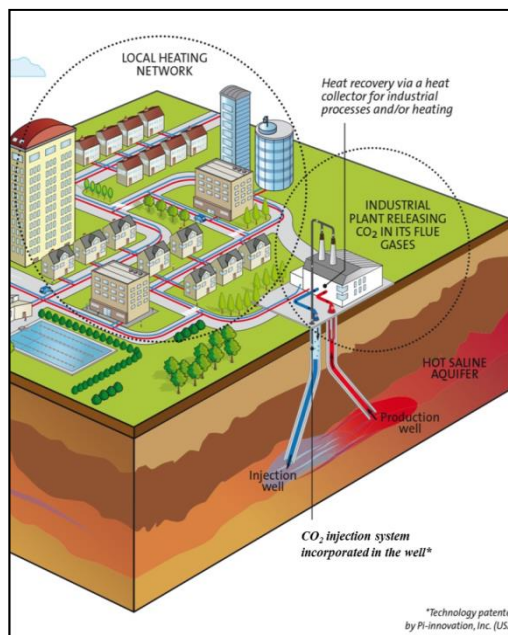
Christophe Kervévan: [c.kervevan@brgm.fr](mailto:c.kervevan@brgm.fr)

## MAIN OBJECTIVE

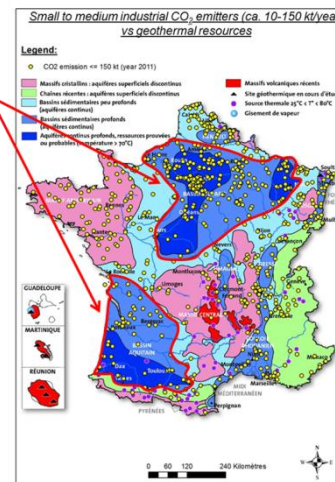
Identify an industrial site and bring onboard the industrial partner in order to size a first demonstration pilot that aims to capture, inject and store locally the emitted CO<sub>2</sub> after being dissolved in brine extracted from a geothermal doublet.

## A POTENTIAL MARKET FOR SMALL INDUSTRIAL EMITTERS (< 150 000 t/a)

A matching of geothermal resources and the location of small industrial emitters (yellow spots in the map below) has demonstrated where the potential of applying the CO<sub>2</sub>-DISSOLVED concept lies, particularly in France. The pilot site is now being sought among the identified compatible CO<sub>2</sub> emitters.



More than **350 compatible emitters** identified in the Paris basin and in the Aquitaine basin



Compatible emitters (2011 data) :

- 653 small emitters
- Emitting 25 Mt CO<sub>2</sub>/a
- Equivalent to 17% of the French industrial emissions