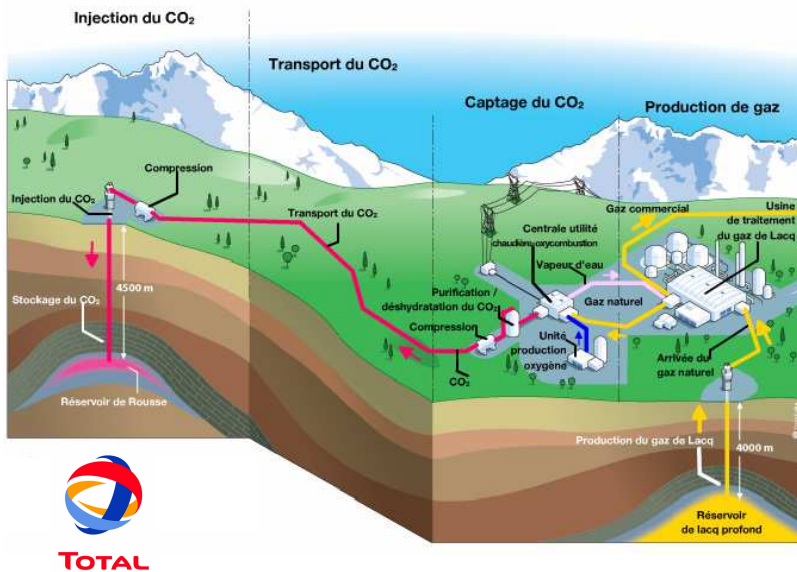


# CO<sub>2</sub> Underground storage, pilot site of Rouse (France) Environmental Baseline Survey and Environmental Assessment



**Pays**  
France

**Client**  
Total E&P France

**Date**  
2008-2009

**Sogreah Magelis' services**

- ▶ Environmental Baseline Survey (Ecology, underground water, hydrography, etc.)
- ▶ Underground & surface water quality follow-up (chemical and biological)
- ▶ Research & development about bio-indicators sensitive to CO<sub>2</sub>.



TOTAL E&P France is working on a pilot project for capturing and storing CO<sub>2</sub> on the site of Rouse, next to the city of Pau (France).

In an international framework where greenhouse gases represent an overriding concern, the underground storage of CO<sub>2</sub> is one of the most promising way to control these emissions.

TOTAL E&P France assigned SOGREAH MAGELIS to carry out an Environmental Baseline Survey as well as a follow-up program.

SOGREAH MAGELIS set up a team of specialists to provide TOTAL E&P France with high quality services and to take part in a research and development process.



The assessment of local geology, underground water and land-use planning, based on the use of aerial pictures, allowed to choose relevant observation stations.

Fauna & flora inventories, ecosystems and water quality assessments have been performed following recognized standards, using chemical parameters and standardized bio-indicators such as Diatoms and benthic macro fauna.

The research & development program addresses the identification of bio-indicators to track any rising of CO<sub>2</sub> (diatoms, bacteria) throughout the ground.

