



Renewable energies

Geothermal energy



GEOTHERMAL ENERGY

OUR NETWORKS

COLLABORATION WITH THE BRGM

IFPEN works in close partnership with teams from the [BRGM](#) (French Geological and Mining Research Bureau), **capitalizing on synergies and complementary expertise**. The partners work together within the framework of French and European collaborative projects, sometimes focusing on other themes such as CO₂ storage.

COLLABORATION WITH STORENGY



The partnership agreement with [Storengy](#) is hinged around a determination to use the complementary expertise of each organization in order to contribute to the growth of new industrial sectors for the energy transition. Geothermal energy is one of the fields covered by the framework agreement, along with **energy storage, hydrogen, the digital transformation and numerical tools**.

This partnership enables IFPEN to be more in tune with market needs.



The GECO project has received funding from the European Union's Research and Innovation Programme Horizon 2020 under Grant Agreement No 818169.

EUROPEAN DEEPEN PROJECT: DEVELOPING GEOTHERMAL ENERGY IN A MAGMA ENVIRONMENT AND CONTROLLING RISKS

Aimed at **developing geothermal energy in a magma environment** and controlling the associated risks, the **DEEPEN** (DERisking Exploration for geothermal Plays in magmatic Environments) project was launched by the european consortium **GEOTHERMICA** in January 2021 for a period of 3 years.

Coordinated by Icelandic operator Reykjavik Energy (OR), DEEPEN aims **to adapt the Play Fairway Analysis approach to classic and non-conventional (supercritical) geothermal energy in a magma environment**. This methodology makes it possible to hierarchize zones of interest in terms of various criteria, taking into account, in particular, the risks and potential of such zones as assessed during the exploration phase.

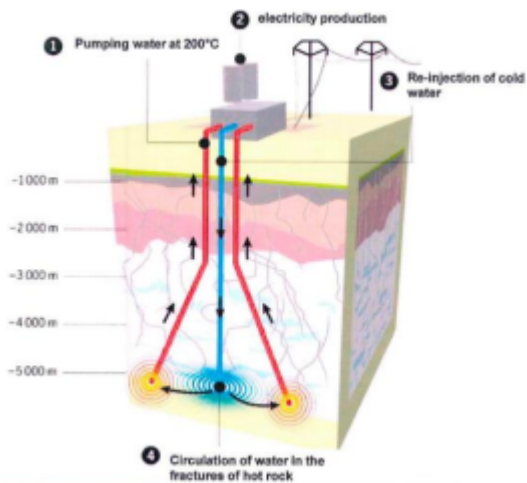
IFPEN's teams will set up a methodology **to assess the risk of mineral deposits in production wells**.

EUROPEAN EUGELI PROJECT: CAPTURING LITHIUM IN GEOTHERMAL WATERS

The aim of the European **EuGeLi European Geothermal Lithium Brines project**, conducted by Eramet from 2019 to 2021, is **to develop a pilot unit in Alsace**, north-eastern France, using a **selective lithium capture material in geothermal waters**.

IFPEN is contributing its expertise for **the characterization and understanding of the implementation of this adsorbent** in the geothermal waters of the Rhine basin, which are completely unlike those of the South-American salt flats.

>> [Find out more about the project](#)



EUGELI has received funding from the European Institute of Innovation (EIT), a body of the European Union, under the Horizon 2020 research and innovation program.

ANR UPGEO PROJECT: OPTIMIZING GEOTHERMAL RESOURCES IN THE ILE-DE-FRANCE REGION OF FRANCE



The **UPGEO** (UPscaling and heat simulations for improving the efficiency of deep **GEO**thermal energy) project, led by GEOPS (Géosciences Paris Saclay), was launched in January 2020 for a period of 4 years. It aims to **optimize the use of the geothermal reservoirs** in the Ile-de-France region.

ADEME GEOFLUID PROJECT: GEOTHERMAL ENERGY IN THE PARIS BASIN

Launched in 2021, the aim of this project is to **study well injectivity in the siliciclastic reservoirs of the Paris basin** in order to improve the efficiency and lifespan of reservoir exploitation, particularly those of the Albien. This first project focuses on plugging processes as well as the choice of completions in these unconsolidated sediments.

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Our networks

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