

Research topic

Dynamic characterization of deep geothermal reservoir using microseismic data

Case studies

Strasbourg and Riom-Clermont-Ferrand permits

Leader and consortium

Fonroche, BRGM, Electerre de France, MinesParisTech

Budget

3.1 M€

Funding

1.3 M€

Timescale

09/2015-03/2020

Contact

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OBJECTIVES

The accurate understanding of reservoir behavior under the influence of anthropogenic stresses (testing, injection...) is one of the key point of the risk management associated to deep geothermal projects. From natural and induced microseismic data, this project aims to systematize the fault reservoir characterization to secure the long-term flow production.

SHORT TERM MARKETABLE DELIVERABLES

- Methodology to build a 3D reservoir model with the associated stresses system
- Prediction of microseismic events based on the characterization of hydro-mechanical heterogeneities, reproducible in different geological contexts

