



# GRETA

## Near-surface Geothermal Resources in the Territory of the Alpine Space

Alpine Regions are facing the challenges of an **increasing energy demand** and the need to **reduce CO2 emissions**. Shallow geothermal systems can provide **heating and cooling** with a **renewable and sustainable energy source**. However, this potential is **still scarcely known and used**. The GRETA project (2016-2018) aims at **unlocking the potential of Near-Surface Geothermal Energy (NSGE)** in the Alpine Space.

### GRETA OBJECTIVES

#### Identify Near-Surface Geothermal Energy Potential

A large-scale map of qualitative NSGE resource and a quantitative NSGE potential in the 6 case study areas will be developed. Both **maps will be freely accessible through a Web-GIS tool**.

#### Foster transnational knowledge exchange

Regulations will be reviewed and a **guideline for a harmonized regulation will be developed**, integrating best practices and feedback from stakeholders. The wide variety of NSGE applications will be demonstrated collecting data from best technical practices

#### Integrate NSGE into local policies

A methodology for the integration of NSGE into local Energy Plans will be developed and tested on 3 pilot areas. It will **assess the economic, technical and environmental feasibility** of NSGE installations and **identify scenarios that foster the deployment of NSGE**.

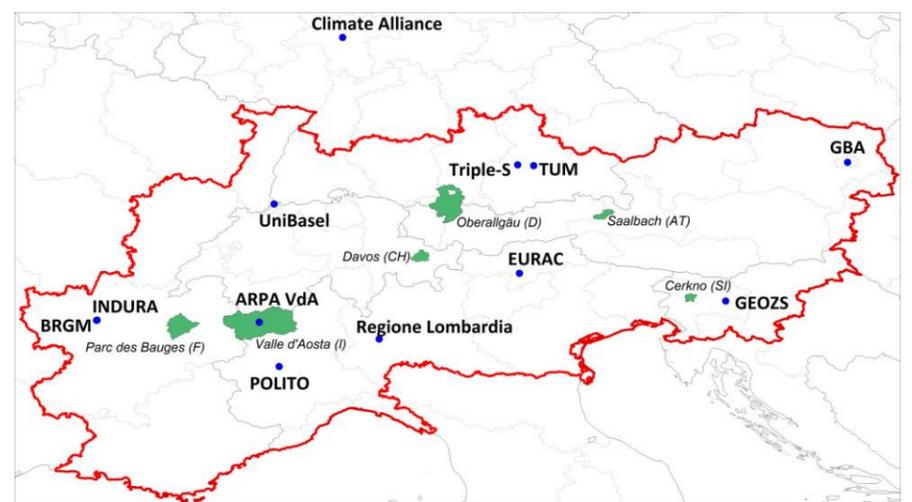


### GRETA OUTLOOK

**Observers and stakeholders are asked for opinions and experiences**, and their needs orientate the features developed in GRETA:

- In a constant feedback loop all project partners collect the users' opinions, experiences and expectations, with support of the project's scientific mediator.
- Project results will be summarized in the multi-language CESBA-Wiki, ensuring the durability of the project results.

### Further investigations on case study areas



The project activities will focus on case study areas to collect best practice examples, data on NSGE utilization, and for detailed assessment of NSGE potential. The areas reflect the **diversity of energetic situations in the Alpine Space**: space-constrained valleys, remote infrastructures (e.g. ski stations), etc.

#### Get in touch !

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