Swiss Centre of Competence for Deep Geothermal Energy for power and heat production



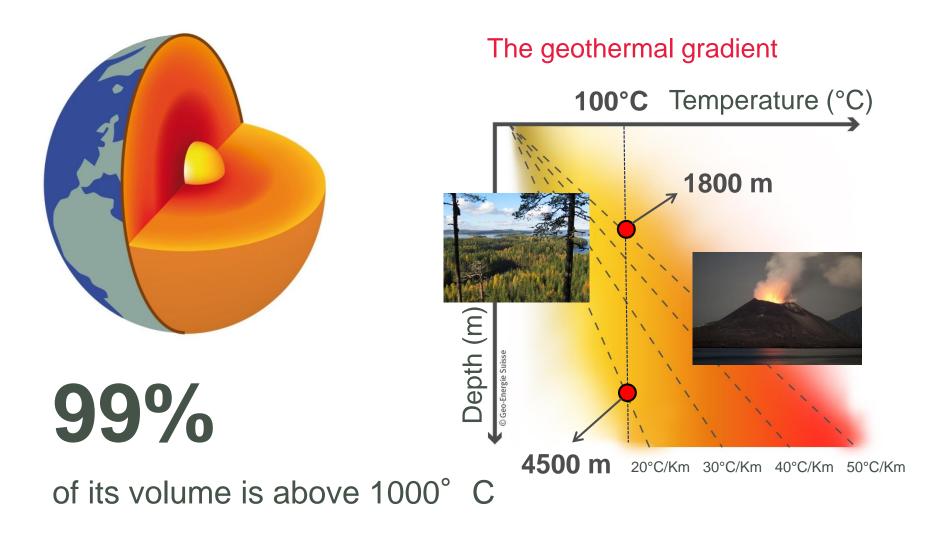
Status Petrothermal Projects

SCCER-SoE Jahreskonferenz Friday 15th of September 2017, WSL Birmensdorf (ZH)

Dr. Peter Meier, CEO Geo-Energie Suisse

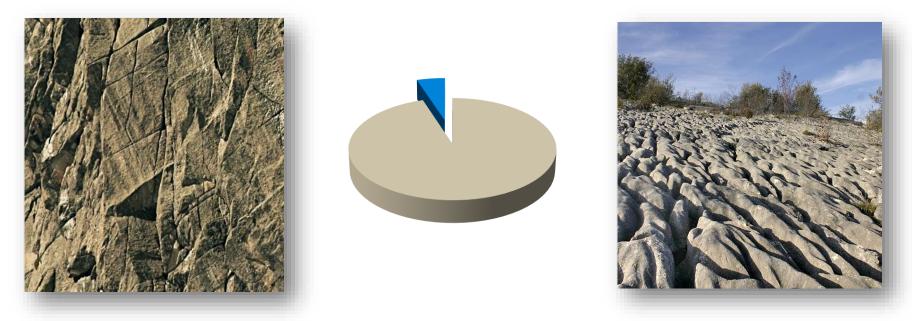


The Heat





The Water Flow

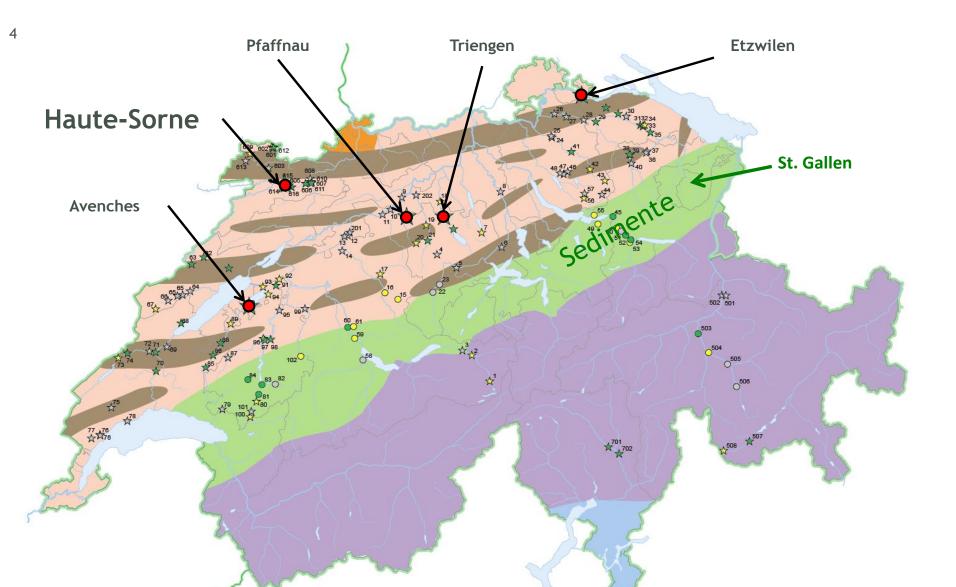


Message

- Sufficient temperature will always be found. It is only a matter of depth (and costs)
- Large water flows at depth are rare. Technology is therefore required to extract the heat in most cases



130 potential sites for pilot projects were evaluated within different plays within crystalline basement and sediments



Haute-Sorne, Canton Jura







Status Haute-Sorne

- 2012: Start planning
- □ January 2014: Request for construction permit submitted
- □ June 2015: Construction permit received
- □ June 2015: Liability insurance CHF 100 Mio. contracted
- December 2016: Cantonal court rejects appeal against construction permit
- December 2016: Risk guarantee from Swissgrid/BFE CHF 47.5 Mio.
- □ January 2017: Appeal against construction permit
- April 2017: Popular initiative to ban middle and deep geothermal energy in the Canton of Jura submitted
- September 2017: Message of Cantonal government to Cantonal parliament
- October 2017: Cantonal parliament will decide on legal validity of initiative
- October 2017-March 2018: decision of federal court expected



- Haute-Sorne: good advice is costly!
- □ After the clear approval of the new energy law:
 - Continue developments at other sites
 - Study alpine regions for possible sites
- R&D-projects
- Heat storage projects
- Hope for patience of the shareholders
- □ Go abroad









Objectives

Demonstration of soft stimulation treatments of geothermal reservoirs.

Project description

16 Partners from research and industry from 6 European countries and South Korea will demonstrate soft stimulation in existing or planned boreholes at up to 7 sites in sedimentary and crystalline rocks.

Significance

Geo-Energie Suisse focuses on the development and testing of zonal isolation techniques and multi-stage shear stimulation treatments at the Haute-Sorne site.

Budget

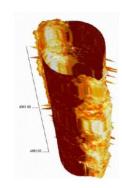
Total budget Euro 25 Mio., Geo-Energie Suisse CHF 5.6 Mio.

Project duration

March 2016 – February 2020

100 - 100 - - CU- - - CU











DESTRESS Pohang, South Korea, December 2016



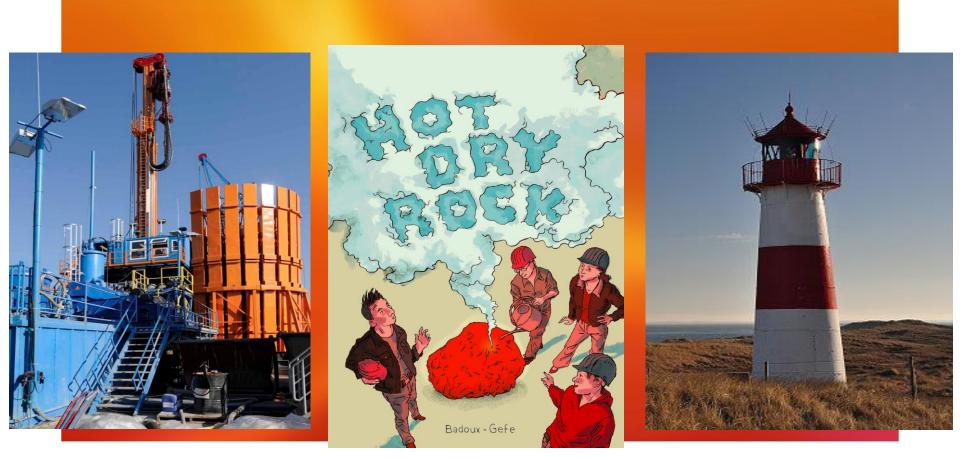






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Thank you for your attention!