

#### Session title

Groundwater dependent geothermal systems

#### Description

Although geothermal energy is present throughout the Earth's crust, the heat carrier (i.e. water) is only available in limited quantities. Efficient and sustainable use, including reinjection, is challenging in many cases. Another possibility for geothermal energy is that subsurface geological formations provide enormous energy storage capacity. The cyclically stored fluids are expected to be stored safely and reclaimed efficiently, effectively making the underground storage system the world's largest battery. We welcome case studies and presentations introducing new solutions related to these topics.

#### Keywords

Geothermal fluid, Reinjection, Scaling, Aquifer Thermal Energy Storage (ATES), Numerical simulation

#### Session Chair

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#### Conveners

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