

Dissertation Release**03.10.2019**

Storage of solar energy in rocks beneath our feet

Title of the dissertation	Techno-economic aspects of seasonal underground storage of solar thermal energy in hard crystalline rocks
Contents of the dissertation	Solar thermal energy is a clean and renewable energy source, applicable to indoor heating. However, in countries located at high latitudes, there is a mismatch between its oversupply in the summer and undersupply in the winter. Borehole and fractured thermal energy storage methods are two cost-efficient and feasible means to store the surplus of solar thermal energy seasonally in the rocks beneath our feet. This dissertation presents two numerical methods capable of aiding in the design of borehole and fractured thermal energy storage systems.
Field of the dissertation	Geoengineering
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