

Problem analysis of geothermal use of flushing water in the Schlema-Alberoda area

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Project target: The main study goal was the identification of different technical possibilities of the energetic use of the water under consideration of the local conditions and the evaluation of potential technical related environmental impacts and risks.

Location: Schlema,
Germany

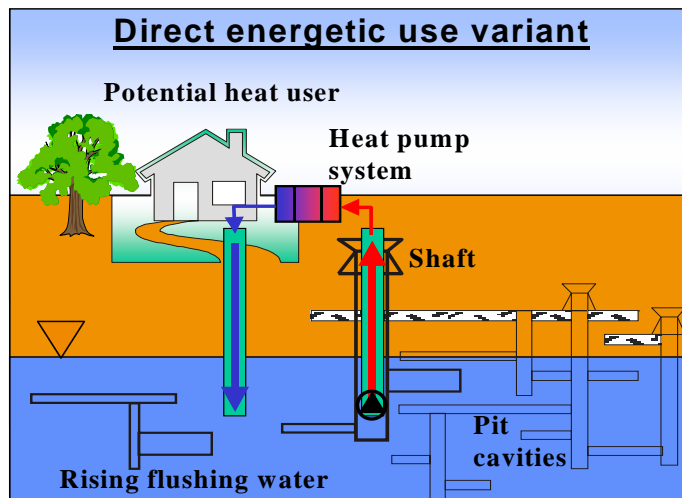
Client: Wismut GmbH

Beneficiary: Wismut GmbH

Time period: 2000 – 2001

Budget: 50,000 EURO

Initial situation:



- After the flooding about 35 mil. m³ of water will be filled into the cavities of the former uranium mine Schlema-Alberoda, which is known as the deepest mine in Europe (1,850 m deep). A temperature of about 30 °C will remain in low depth. The thermal water of the mine contains a geothermal potential that is unique for its size and quite easy development possibility in Central Europe.



Main tasks:

- Physical characterisation of the reservoir and resource
- Enquiry of potential geothermal heat users.
- Investigation and evaluation of energetic use variants, cost-benefit-analysis.
- Environmental assessment and legal permission conditions.
- Recommendations on technical implementation.