

Topic: Deep Geothermal Energy

Basin-scale analysis of heat-flow modelling parameters in geothermal systems

Description: This Bachelor's thesis analyses basin-scale trends of heat-flow modelling parameters within a geothermal target interval. Excel-based datasets are processed using custom-developed scripts to classify parameters across geological, hydraulic, thermal, and operational domains, considering data source, spatial scale, and uncertainty. The categorised parameters are analysed and visualised using plots and figures to support the interpretation of trends relevant for basin-scale heat-flow modelling and geothermal assessment.

Tasks:

- Focus on data processing, scripting, and graphical data representation
- Development of scripts for categorising Excel-based geothermal datasets
- Visualisation of heat-flow parameters using plots and figures

Supervisors:

Ishani Banerjee (TUM), Aurélie Crinière (TUM), Kai Zosseder (TUM), Emilio Sánchez (Bavarian Environment Agency)

Contact: ishani.banerjee@tum.de

