



GEOTHERMAL SYSTEMS

Assisting industry actors in the complex investigation and solution of problems related to the exploration and utilization of geothermal energy (medium and high depth geothermal systems).

COMPETENCES

Determination of geothermal energy potential, sustainable utilization of geothermal energy, planning the installation of geothermal systems from low enthalpy to high enthalpy systems, reducing risks of geothermal investments.



SERVICES

- Well&area level geothermal energy potential determination
- Sustainable thermal water production and utilization
- Geothermal heat and power generation
- Risk assessment for geothermal investments
- Design of geothermal well drilling and production equipment
- Hydrodynamic and heat transport modeling



TOOLS

MODELING TOOLS

- GMS
- Processing Modflow MTH 3D
- PHREEQC



REFERENCES

- CHPM2030 Combined Heat, Power and Metal Extraction H2020 project; www.chpm2030.eu
- Reflect Redefining geothermal fluid properties at extreme conditions H2020 project; www.reflect-h2020.eu
- PULSE GINOP project – Development of enhanced engineering methods with the aim at utilization of subterranean energy resources; <http://pulse.afki.hu/hu/>
- MVM Group: Possibilities of geothermal power plant development (R&D&I study), 2017