

GEOHERMAL ENERGY: Status and Future in the Peri - Adriatic Area



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Recent achievements in geothermal technology

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The ambitious development goals set by the geothermal community for projected geopotential and geoheat capacities in year 2050, 140 GW_{el} (including engineered geothermal systems –EGS) and 800 GW_{th} respectively, act as a strong stimulus for technological innovation.

In this perspective the present paper focuses on key segments aimed at (i) improving drilling success ratios, (ii) reclaiming, cogeneration eligible, medium enthalpy sources, (iii) upgrading well performance and longevities, and (iv) securing sustainable reservoir management.

Accordingly the following key issues will be addressed.

- structural geomodelling of complex reservoir
- 3D seismic assisted well targeting
- novel well architectures (subhorizontal, multileg, corrosion/scaling resistant wellbore designs)
- high temperature/high flow/deep seated pumping equipment
- downhole chemical inhibition and production control lines
- high temperature steering and logging while drilling equipment

The seismic risk induced by water injection in sensitive, tectonically active, reservoir environments will be also discussed.



Figure 1: P. UNGEMACH

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