



GEOCOND- Advanced materials and processes to improve the performance and cost-efficiency of Shallow Geothermal systems and Underground Thermal Storage

Shallow geothermal energy systems (SGES) are a stable, reliable and renewable energy source with some key features compared to many other resources. However, its implementation at large scale presents some challenges, considering the high upfront capital needed compared to other solutions such as gas or other fossil technologies, the low awareness, and the diverse and changing regulations.

GEOCOND will overcome these challenges with a particular focus on capital cost reduction, increased efficiency, increased reliability & security, extended lifespan, improved environmental compatibility and increased awareness by exploiting the high potential offered by a unique combination of focused, system-wide engineering as well as new materials and technologies in the key areas of SGES and UTES.

By a smart combination of different material solutions under the umbrella of sophisticated engineering, optimization, testing and on-site validation, GEOCOND will develop solutions to increase the thermal performance of the different subsystems configuring an SGES or UTES. Cost reductions of around 25% overall will allow SGES/UTES solutions to substantially gain competitiveness in the market.

The project is coordinated by the Universitat Politècnica de València in collaboration with 9 partners from 8 different countries (AIMPLAS-Spain; EXTRULINE SYSTEMS S.L-Spain; CBI Betonginstitutet AB-Sweden; Sabanci University-Turkey; Çimsa Çimento Sanayi AŞ-Turkey; SILMA SR- Italy; CARMEL OLEFINS LIMITED-Israel; UBeG-Germany; and EXERGY LTD- UK).



Project KoM celebrated in Valencia Spain, May 2017

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement N° 727583.



Connect with us!

