The gROUNDHIT pROJECT

GROUND COUPLED HEAT PUMPS OF HIGH TECHNOLOGY

Sixth Framework Programme

objectives

The project GROUNDHIT aims at improving cost-effectiveness, competitiveness and market penetration of ground coupled heat pumps by developing:

- borehole heat exchanger parts that can be mass-produced and can easily be assembled on site to a borehole heat exchanger.
- a geothermal heat pump of improved efficiency (COP=5,5) suitable for operation together with a borehole heat exchanger.
- a geothermal heat pump able to deliver 80°C suitable for operation together with a borehole heat exchanger.
- a water source heat pump of exceptionally high efficiency (COP=7,0), able to utilise geothermal water 25-40°C.

Testing, demo operation and dissemination of the above technologies.

partners

Centre for Renewable Energy Sources (CRES) – Greece: project coordinator
Compagnie Industrielle d'Applications Thermiques (CIAT) - France
EWS Erdwärme-Systemtechnik GmbH & Co. KG - Germany
Geothermische Vereinigung e.V. (GtV) - Germany
GEOTEAM GmbH – Austria
Escola Superior de Tecnologia de Setubal – Portugal
MENTOR Investment Consultants SA – Greece
Chemical Process Engineering Research Institute (CPERI) – Greece
University of Oradea – Romania
University of Silesia – Poland
Bureau de Recherches Geologiques et Minieres (BRGM) - France

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or 46,77%
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