Project acronym: GROUND-MED

Project title: Advanced ground source heat pump systems for heating and cooling in Mediterranean climate

Start date of project: 1 January 2009

Duration: 60 months

Deliverable D9.10: Training course in Spain

Version: Final

Due date of deliverable: 30 June 2010

Actual submission date: 24 June 2010

Organisation name of lead contractor for this deliverable:

BESEL S.A.

Project co-funded by the European Commission within FP7 Programme		
Dissemination level		
PU	Public	**X**
PP	Restricted to other programme participants (including the Commission Services)	
RE	Restricted to a group specified by the Consortium (including the Commission Services)	
CO	Confidential, only for members of the consortium (including the Commission Services)	

GROUND-MED SEMINAR No 1

Summary report

The first GROUND-MED seminar took place on the 24th of June of 2010, from 09:00 to 13:30, in the headquarters of BESEL in Leganés, Madrid, Spain.

The seminar started with a brief introduction to the GROUND-MED project from CRES (Centre for Renewable Energy Sources from Greece) as project coordinator.

The program covered all aspects of innovative geothermal heat pump systems for heating and cooling in the Mediterranean climate, including BHE design, heat pump design and optimisation, system control for maximum energy efficiency and market opportunities. The case study of the GeoCool heat pump system (FP5) at the campus of the University of Valencia was also presented.

The seminar was given by the GROUND-MED project partners, including EGEC (European Geothermal Energy Council), the universities of Coimbra, Dublin, Valencia, Padova and Setubal, heat pump manufacturer CIAT (Compagnie Industrielle d'Applications Thermique), CETIAT laboratory (Centre Technique des Industries Aérauliques et Thermique) and GROENHOLLAND.

The seminar had a total of 16 participants from different organisations, including the Spanish Institute of Geology and Mining (IGME), the following companies: Grupo SANJOSE, Grupo Terratest, Bleninser, Grupo Foresis, Grupo JG Ingenieros Consultores, Expert Sistemas Solares, research students and the general public.

The list of companies includes large contractors, civil engineering, renewable energies and building management firms.

The organisation of the seminar was communicated to the main interested Spanish associations and institutions, such as IDAE (Institute for Diversification and Saving of Energy), CIEMAT (Centre for Research in Energy and Environmental Technologies), FENERCOM (Foundation for Energy of the Autonomous Region of Madrid), GEOPLAT (Spanish Geothermal Technology Platform) and ATECYR (Spanish Association for Heating, Ventilating and Air-Conditioning).

Overall, the seminar was a great success, contributing to the GROUND-MED project dissemination objectives and training of professionals in the field of geothermal heating and cooling in Spain.

The seminar presentations are available at http://www.groundmed.eu/.

Photos


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Bombas geotérmicas de alta eficiencia – Casos prácticos desarrollados dentro del proyecto europeo GROUND-MED

Fecha: Jueves 24 de junio 2010. Horario: 9:00 - 13:30

Lugar: Sede de BESEL S.A.
C/ Margarita Salas nº 10 – Parque Tecnológico LEGATEC – 28918 LEGANÉS (Madrid)

Objetivo: El proyecto GROUND-MED tiene como objetivo demostrar el funcionamiento de la próxima generación de bombas geotérmicas en 8 edificios del sur de Europa (para más información www.groundmed.eu)

A lo largo esta jornada, expertos internacionales en bombas geotérmicas presentarán los avances del proyecto hasta la fecha y el caso de la integración del sistema geotérmico en el edificio de la Universidad de Valencia.

Nota importante: la jornada se realizará en inglés, sin traducción al español.

PROGRAMA

9:00	**Introduction to the seminar**
9:10	**Introduction to the Ground-Med project** D. Mendrinos - Centre for Renewable Energy Sources (Greece).
9:30	**BHE design aspects, energy performance and market** Dr. Burkhard Sanner European Geothermal Energy Council (Belgium)
9:50	**BHE optimization** Guus Van Gelder / Henk Witte GROENHOLLAND geo environmental solutions, (Netherlands)
10:10	**Advanced geothermal heat pump prototypes of high capacity** E. Auzenet Compagnie Industrielle d'Applications Thermiques. (France)
10:30	**Methods to improve heat pumps COP** Prof. Davide del Col Università degli Studi di Padova (Italy)
10:50	**Discussion and questions**
11:00	**Coffee break**
11:20	**Part load behavior of heat pumps** Ahmed Bensafi Centre Technique des Industries Aérauliques et Thermique (France)
11:40	**Thermal Reponse Tests** Luis Coelho Escola Superior De Tecnologia De Setubal (Portugal)
12:00	**GSHP system control for maximum energy efficiency** Dr. Donal Finn University College Dublin (Ireland)
12:20	**Case study: the GeoCool heat pump system in Valencia campus** Prof. Jose M. Corberan Universidad Politécnica de Valencia (Spain)
12:40	**Energy efficient pumps for geothermal systems** Prof. Anibal de Almeida University of Coimbra (Portugal)
13:00	**Debate and questions**

Inscripciones: la jornada es gratuíta. Para solicitar plaza, por favor enviar un email a e-mail: mvazquez@besel.es antes del 15 de junio.

Alojamiento y acceso al Parque Tecnológico LEGATEC: se recomienda llegar al Parque en taxi:

- Desde la estación de Atocha (trayecto de 15 minutos aproximadamente)
- El hotel más próximo al Parque es el Egido Via Lusitana (C/Antonia Rodríguez Sacristán 14, Madrid. Tf. 915110380). Desde el hotel el trayecto en taxi es de unos 5 minutos.