



GROUND-MED PROJECT

Dissemination Plan of GROUND-MED

Kontoleonos Evgenia



Centre for Renewable Energy Sources

2nd GROUND-MED meeting: Athens, 25-26
February

	2007	2008*
Germany	26 887	34 450
Sweden	27 938	25 138
France	21 200	21 725
Austria	8 288	8 566
Finland	5 300	7 500
United Kingdom	3 000	5 000
Netherlands	3 529	4 098
Czech Rep.	1 792	2 203
Ireland	2 608	2 095
Belgium	1 200	1 300
Poland	1 700	1 000
Estonia	1 123	972
Slovenia	420	405
Greece	65	n.c.
Total	105 050	114 452

* *Estimation. Estimate..*
Les décimales sont séparées par une virgule. Decimals are written with a comma.
 Source EurObserv'ER 2009

Number of installed ground source heat pumps units in the European Union countries in 2007 and 2008

Germany

- In 2008 a new incentive scheme came into effect with subsidies offered according to different criteria (new/old build, residential/ non residential) and HP technology
- From 1 January 2009, the HP market has benefited from the enactment of the German law promoting RES in the heating sector (Wärme-EEG). Owners of new buildings choosing heat pumps (ground or air source) must ensure that they cover at least 50% of the building's heating requirements

Sweden

- The fierce competition put up by air source equipment

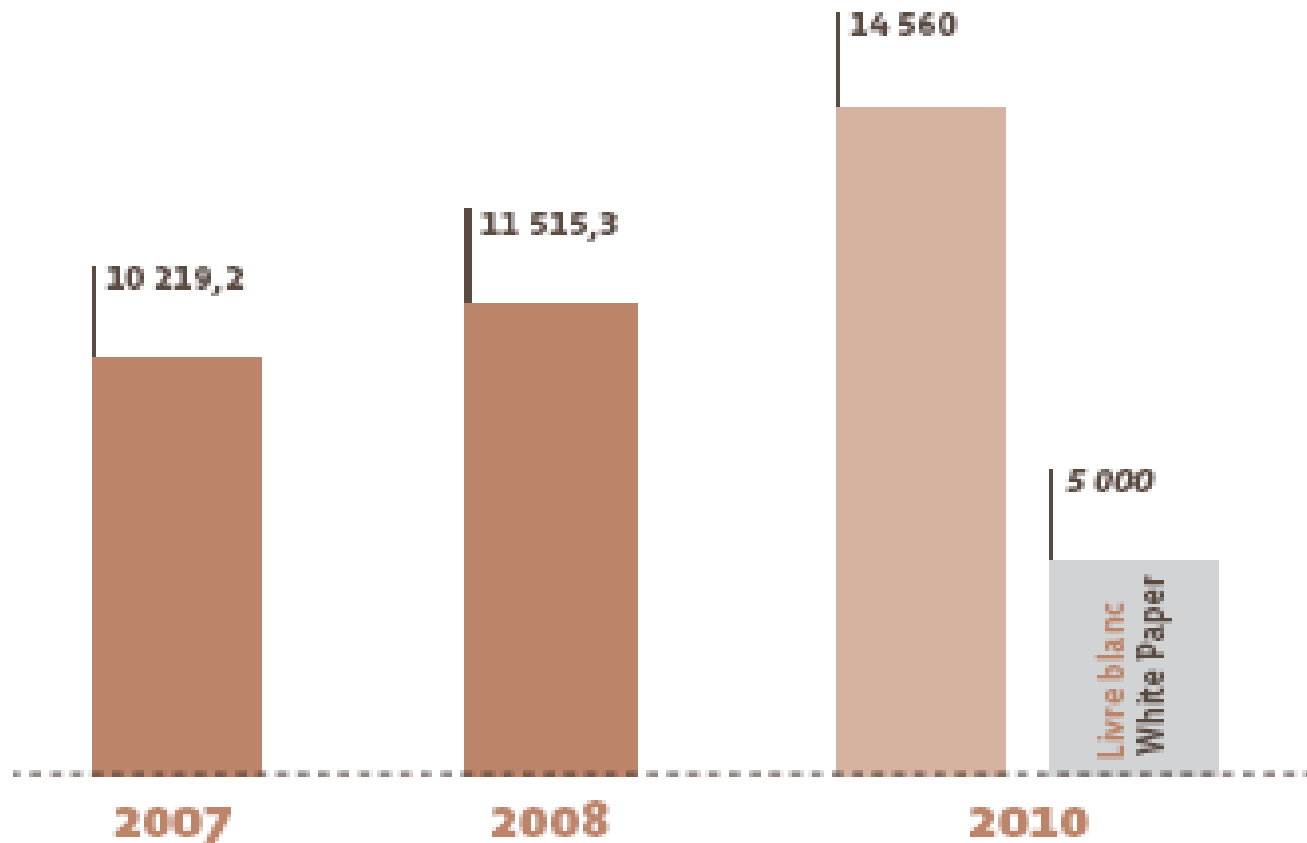
France

- The property slump had direct consequences bringing down the number of new house builds (by 12.7% in 2008) and the domino effect held back the ground source HP market
- Another explanation for this feeble performance by the GSHP sector is the tax credit scheme, 50% between 2006 and 2008, that does not discriminate between HP technologies
- The cheaper air source systems are presenting a stiff challenge to ground source systems

	2007		2008*	
	Nombre/Number	Puissance/Capacity (MWth)	Nombre/Number	Puissance/Capacity (MWth)
Sweden	298049	2682,0	320687	2909,0
Germany	115813	1273,9	150263	1652,9
France	105056	1155,6	124181	1366,0
Finland	38912	827,9	46412	857,9
Austria	40549	454,1	48641	544,8
Netherlands	15230	392,0	19310	508,0
Poland	10000	133,0	11000	180,0
Ireland	8028	130,0	10123	167,0
Italy	7500	150,0	7500	150,0
Czech Rep.	6965	112,0	9168	147,0
United Kingdom	5350	69,6	10350	134,6
Denmark	11250	123,8	11250	123,8
Belgium	8200	98,4	9500	114,0
Estonia	3913	50,1	4874	63,0
Hungary	350	15,0	350	15,0
Slovenia	720	6,4	1125	12,2
Lithuania	200	4,3	200	4,3
Romania	40	2,0	40	2,0
Greece	194	1,9	194	1,9
Slovakia	8	1,4	8	1,4
Bulgaria	19	0,3	19	0,3
Latvia	10	0,2	10	0,2
Portugal	1	0,2	1	0,2
Total EU	676 357	7 684,1	785 206	8 955,4

* Estimation. Estimate. – Les unités mises hors service durant l'année 2008 ont été déduites du parc 2008. Those systems that were decommissioned during 2008 have been deducted from the cumulated figures of the end of 2008. – Les décimales sont séparées par une virgule. Decimals are written with a comma. Source EuroObserv'ER 2009

Number and installed capacity of ground source heat pumps in the European Union countries in 2007 and 2008



Comparison between current trend and White paper objectives for geothermal heat production (in MWth)

1. **Print-out material**
2. **Project website development**
3. **Publications**
4. **Presentations at conferences, meetings, events**
5. **Two European conferences and two meetings with EC officials**
6. **Seminars and training**
7. **On-site visits to demo plants**
8. **Forthcoming events for dissemination**
9. **Overview table for dissemination activities**



Demonstration of
Ground Source Heat Pumps
in Mediterranean Climate



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Welcome to GROUND-MED project

Within the framework of this demonstration project eight ground source heat pump plants shall be built and monitored, aimed at verifying sustainability of heat pump technology for heating and cooling of buildings in Mediterranean climate.



GROUND-MED project 8: Office building of EDRAIS in Athens, Greece

Related websites

- EGEC**
The voice of geothermal energy in Europe
- EHPA**
Representing interests of the European heat pump industry
- EHPN**
European information platform for heat pump technology
- GROUND-REACH project**
Reaching the Kyoto targets by ground source heat pumps *(completed)*
- SHERHPA Project**
Development of innovative heat pumps using natural refrigerants *(completed)*

Supported by



Seventh Research Framework
Programme
Collaborative project
No TREN/FP7EN/218895

News



New best practice case studies published

Jun. 08, 2009 – Two new case studies have been added to the Heat Pump Best Practice Database. These are a conference centre in Stockholm, Sweden as well as a multifamily residence in Savona, Italy. [» read more](#)



Official launch of GROUND-MED project website

May. 25, 2009 – From now on the GROUND-MED project website is available under its official URL.

Events

- Symposium "10 Jahre Thermal Response Test in Deutschland"
16 September 2009,
Göttingen, Germany
- World Geothermal Congress (WGC 2010)
25-30 April 2010, Bali,
Indonesia

- Submitted to Energy and Buildings Feb 2010: *A Quasi-Steady State Mathematical Model of an Integrated Ground Source Heat Pump for Building Space Control*, J.M. Corberan, D.P. Finn, C.M. Montagud, F.T. Murphy and K.C. Edwards.
- *Experimental measurements from year 2007 until nowadays were collected by UPV. Representative parameters such as calculated heat injected or extracted from the ground as well as measured water temperatures entering and exiting the ground source heat exchanger will be implemented in several graphs and a scientific publication will be sent to a journal on year 2010. Experimental data will keep on being collected during the next years of the project duration.*
- “Geothermal Resources and Utilisation Possibilities”, “Mesagerul Energetic”, the Bulletin of the National Committee of the World Energy Council, Bucharest, Romania (in Romanian)

Conferences, meetings, events

International conference on national development of geothermal energy use,
IGD Slovakia 2009

International Association of Hydro geologists – Commission for Mineral and Thermal Waters
Annual meeting

RENEXPO Salzburg – International Trade Fair For Renewable Energy & Energy Efficient
Building and Renovation

1st International Conference on Energy Efficiency in Buildings and Renovation in Romania and
South-East Europe, Arad, Romania

EHPA Conference, Linz (Austria)

International Geothermal Days - Slovakia 2009, Castá Papiernicka

European Future Energy Forum , Bilbao, Spain

CEN Annual Meeting , Madrid-Spain

Geothermics Day, Faculté Polytechnique de Mons- Belgium UMONS

GEOTHERXPO 2009, FERRARA- Italy

25-29/04/2010, World Geothermal Congress 2010, Bali, Indonesia: The European Project Ground-Med, Dimitrios Mendrinou, Constantine Karytsas and Marcel Rosca

10-11/03/2010, Madrid, GEOENER congress “Optimización Energética de una instalación de bomba de calor acoplada al terreno para calefacción y refrigeración en un edificio de viviendas ”, ”Ground-med project: Advanced Ground Source Heat Pump Systems for heating and cooling in Mediterranean climate ” organized by Regional Ministry for Economy and Treasury, through the General Directorate for Industry, Energy and Mines, and the Regional Energy Agency of Madrid (Fundación de la Energía de la Comunidad de Madrid)

6/05/2010, Buildings for the Future conference, Brussels (Belgium)

14-16/04/2010, Sofia (Bulgaria), 6th International Congress on Energy Efficiency and Renewable Energy Sources for South East Europe

“Romanian Geothermal Resources and Utilisation Possibilities” at the Workshop on Monitoring Energy Resources, organised by the Romanian National Committee of the World Energy Council, Bucharest, Romania (in Romanian)

International Geothermal Days - Slovakia 2009, Castá Papiernicka

European Future Energy Forum , Bilbao, Spain

CEN Annual Meeting , Madrid, Spain

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GEOOTHERXPO 2009, FERRARA- Italy

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- **Seminars in Spain (June 2010)**
- **Seminars in France (December 2010)**
- **Training courses coordination**

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Overview table for dissemination activities

Planned/actual dates	Type	Type of audience	Size of audience	Partner involved
During the project	Project website	General public, stakeholders and partners		FIZ
3rd year of the project	1 st European conference (Grenoble)	EGC, Spec. scientists & engineers Developers, investors	60-75 participants	CEA, GRETh
End of the project	final European conference (Valencia)	EGC, Spec. scientists & engineers Developers, investors	100 participants	UPV
Month 18	1 st meeting with EC officials in Brussels	Project partners		EHPA
End of the project	2 nd meeting with EC officials in Brussels	Project partners		EHPA
Month 45	Training courses in Portugal	EGC, Spec. scientists & engineers Developers, investors		ISR

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Month 18	Training courses in Spain	EGC, Spec. scientists & engineers Developers, investors		UPV, BESEL
Month 24	Training courses in France	EGC, Spec. scientists & engineers Developers, investors		CEA, GRETh and CETIAT
Month 36	Training courses in Italy	EGC, Spec. scientists & engineers Developers, investors		UNIPD
Month 42	Training courses in Slovenia	EGC, Spec. scientists & engineers Developers, investors		GEJZIR
Month 48	Training courses in Romania	EGC, Spec. scientists & engineers Developers, investors		UOR
Month 51	Training courses in Greece	EGC, Spec. scientists & engineers Developers, investors		CRES

Overview table for dissemination activities

Planned/actual dates	Type	Type of audience	Size of audience	Partner involved
During the project	Mailing lists	All GCHP stakeholders		Each Partner
During the project	Project results & Demo-plant results (Partners Intranet Space)	Partners		FIZ
During the project	Newsletters (website)	General public & GCHP stakeholders		FIZ
During the project	Press releases	General public & GCHP stakeholders		FIZ
During the project	Publications (technical/scientific magazines)	Journals' readers		



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