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Programme

RHC Renewable
Heating & Cooling
European Technology Platform

First Annual Conference of the European Technology Platform on Renewable Heating and Cooling

23-24 February 2010,
Bilbao (Spain)

www.rhc-platform.org

With the support of



EVE | Ente Vasco
de la Energía



Leading the way towards sustainable heating and cooling in Europe

Increasing the use of renewable energies has become the primary concern of policy-makers all over Europe. Although it accounts for half of the overall final European energy demand, it is only since the adoption of the Directive promoting the use of Renewable Energy Sources (RES Directive), that heating and cooling has been recognized as the third pillar of the energy demand alongside transport and electricity production.

Building upon the success of the former European Solar Thermal Technology Platform, the European Commission has encouraged renewable heating and cooling industries and researchers to join forces into the newly created **European Technology Platform on Renewable Heating and Cooling**. The RHC-Platform will play a decisive role in assessing the potential growth of biomass, geothermal and solar thermal energies, as well as in defining the research requirements and priorities needed to develop a sustainable energy supply system in the field of heating and cooling.

In Bilbao on 23-24 February 2010, the First Annual Conference of the European Technology Platform on Renewable Heating and Cooling will focus on the newly developed common vision for renewable heating and cooling in Europe. This two-day conference is the ideal platform to discuss the actions needed to unlock the vast Renewable Energy potential in the European heating and cooling sector. A first class panel of speakers presenting the very latest trends and developments within the field, will tackle a broad range of timely topics including EU research funding policy, development and innovation, market outlook in renewable heating and cooling, thermal energy storage, renewable energy hybrid systems, district heating and cooling and large integration of renewable energy sources.

Lastly, but by no means least, our host city will match the exciting promise of the conference itself. Speakers, participants, guests and friends can all expect to be enchanted by the wonderful city that is Bilbao.

We look forward to welcoming you all in Bilbao on 23-24 February 2010 – marking the next milestone towards sustainable heating and cooling in Europe and ultimately mitigating climate change!



Gerhard Stryi-Hipp
President, European Technology
Platform on Renewable Heating
and Cooling



Juan Tomás Hernani
Secretary General for Innovation,
Spanish Ministry for Science
and Innovation

Conference secretariat

European Technology Platform
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Registration

If at all possible, participants are encouraged to register online. Payment by credit card (Eurocard/Mastercard, Visa or American Express) is preferred. Please indicate the card holder's name as shown on the credit card.

The conference registration fee amounts 95 EUR (VAT 16% included). It is required from all participants in order to offset some organizational costs.

Registration and payment should be received before 17 February 2010.

After this date, registrations are only possible on-site in Bilbao by credit card or in cash (only EUR will be accepted).

Cancellation policy:

For cancellations received after 5 February 2010, no refund will be made.

Contact

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Conference venue

The First Annual of the European Technology Platform on Renewable Heating and Cooling will take place at:

Bilbao Exhibition Centre
Ronda de Azkue 1
48902 Ansio-Barakaldo
Tel: +34 94 404 00 00
Fax : +34 94 404 00 01
Website:
www.bilbaoexhibitioncentre.com

Language

The official language of the conference is English. The opening and closing sessions will be translated simultaneously into Spanish.

RHC-Platform Board

The Board of the Renewable Heating and Cooling Platform is composed of 12 Members, three for each Technology Panel.

Board Members:

Solar Thermal Technology Platform

Gerhard Stryi-Hipp,
Fraunhofer-ISE, Germany (President)
Werner Weiss,
AEE INTEC, Austria
Nigel Cotton,
European Copper Institute (ECI), Belgium

Biomass Technology Platform

Kari Mutka,
VAPO, Finland (Vice-President)
Ria Kalf,
Platform Bioenergie, The Netherlands
Gerold Göttlicher,
EnBW Holding, Germany

Geothermal Technology Platform

Fabrice Boissier,
BRGM - Geothermal Energy Department,
France (Vice-President)
Jean-Philippe Gibaud,
Schlumberger, Geothermal Services, France
Javier F. Urchuguía,
APPA on behalf of GEOPLAT, Spain

Cross-cutting Technology Platform

Anna Land,
Svensk Fjärrvärme, Sweden (Vice-President)
Wolfram Sparber,
EURAC, Italy
Thomas Nowak,
European Heat Pump Association (EHPA),
Belgium

Programme at a glance

Tuesday · 23 February 2010

09.00	Welcome Coffee & Press Conference		
10.00	Opening session		
11.00	Coffee break		
12.00	RHC-ETP vision and round table discussion		
13.00	Lunch		
14.00			
15.00	Parallel sessions		
16.00	1 Solar Thermal Technology Panel	2 Geothermal Technology Panel	3 Biomass Technology Panel
17.00	Parallel sessions		
18.00	1 Solar Thermal Technology Panel	2 Geothermal Technology Panel	3 Biomass Technology Panel
19.00	Framework conditions for funding research, development and innovation		
	Get together		

Wednesday · 24 February 2010

09.00	Perspectives for the renewable heating and cooling sector		
10.00	Parallel sessions		
11.00	1 Solar Thermal Technology Panel	2 Geothermal Technology Panel	3 Biomass Technology Panel
12.00	Coffee break		
13.00	Closing session		
14.00	Lunch		
15.00			

Programme · Tuesday · 23 February 2010

10.00 - 11.00 **Opening session**

Moderation:

Anna Land, Svensk Fjärrvärme /
Vice-President, RHC-Platform

Welcome

Mr. Xabier Garmendia, Vice-Minister of the
Basque Government's Department of Industry,
Innovation, Trade and Tourism

Innovation in Spain

Juan Tomás Hernani,
Secretary General for Innovation,
Spanish Ministry of Science and Innovation

RHC-Platform:

Leading the way towards sustainable renewable heating and cooling

Gerhard Stryi-Hipp,
Fraunhofer ISE / President, RHC-Platform

Supporting research and development to keep the European lead in renewable heating and cooling technologies

Inigo Sabater, European Commission,
DG TREN, Deputy Head of Unit D2

11.00 - 11.30 **Coffee break**

11.30 - 13.00 **RHC-ETP vision and round table discussion**

Moderation: David Hopwood,
Editor, Renewable Energy Focus (tbc)

The European legislative framework for renewable heating and cooling

Claude Turmes,
MEP (tbc)

A common vision for renewable heating and cooling 2020

Burkhard Sanner,
Coordinator of the Horizontal Working Group,
RHC-Platform

Round table discussion: Renewable heating and cooling in 2020, 2030 and 2050

Gerhard Stryi-Hipp, President RHC-Platform,
Kari Mutka, Vice-President RHC-Platform,
Fabrice Boissier, Vice-President RHC-Platform,
Anna Land, Vice-President, RHC-Platform,
Burkard Sanner, Coordinator of the
Horizontal Working Group, RHC-Platform,
Claude Turmes, MEP (tbc)

13.00 - 14.30 **Lunch**

14.30 - 16.00 **Parallel sessions**

Parallel session 1:

Solar Thermal Technology Panel Recent developments and perspectives in Solar Thermal

Moderation: Jan-Olof Dalenbäck,
Chalmers University of Technology, Sweden

Solar Thermal Potential in Europe

Werner Weiss, AEE Intec, Austria /
Member of the Board, RHC-Platform

Solar Thermal R&D in Europe – latest developments

Harald Drück, ITW Stuttgart, Germany

Latest solar thermal markets trends in Europe

Michael Schneider, TiSUN, Spain

Discussion: What do we need to achieve the breakthrough for solar thermal?

Parallel session 2:

Geothermal Technology Panel

Moderation: Burkhard Sanner, EGEC /
Coordinator of the Horizontal Working Group,

Geothermal Vision for 2030

Fabrice Boissier, BRGM - Geothermal
Energy Department, France / Vice-President,
RHC-Platform

Geothermal industrial applications: How IKEA goes renewable with shallow geothermal

Olof Andersson, SWECO Environment, Sweden

Geothermal energy research in the Basque country

Guillermo Basañez, EVE, Spain (tbc)

Discussion: Ground Source Heat Pumps: regulations in new markets and R&D priorities

Javier Urchueguía, APPA,
on behalf of GEOPLAT, Spain /
Member of the Board RHC-Platform
Guus van Gelder, Groen Holland;
Thomas Nowak, European Heat Pump
Association (EHPA), Belgium /
Member of the Board, RHC-Platform

Parallel session 3

Biomass Technology Panel

Moderation: Kari Mutka, Vapo, Finland
Vice-President, RHC-Platform

The Biomass Vision for 2020, 2030 and 2050

Jean-Marc Joissart, AEBIOM

High quality, competitive biomass fuels

Eija Alakangas, VTT, Finland

Residential heating with biomass - R&D and industrial needs

Walter Haslinger, Bioenergy 2020+, Austria
Thomas Muehl, Schiedel, Austria

Discussion

16.00 - 16.30

Coffee break

16.30 - 18.00

Parallel sessions

Parallel session 1

Solar Thermal Technology Panel: Technology updates and further steps

Moderation: Tanja Mohorič, Hidria, Slovenia /
Chair of the Slovenian Technology Platform

Heating and Cooling Implementing Agreement (SHC IA) vision and its activities on solar thermal

Esther Rojas, CIEMAT, Spain

Solar assisted cooling

Hans-Martin Henning,
Fraunhofer ISE, Germany

Future of the ESTTP work

Teun Bokhoven, ZEN International,
The Netherlands (tbc)

Discussion

Parallel session 2

Geothermal Technology Panel

Moderation: Christian Boissavy, EGECE, France

Vision on heating & cooling

Sabine Froning, Euroheat & Power, Belgium

Enhanced geothermal systems for heating

Jean-Philippe Gibaud, Schlumberger
Geothermal Services, France /
Member of the Board, RHC-Platform

Geothermal integration in heating & cooling networks

Raúl Hidalgo, APPA, Spain
on behalf of GEOPLAT

How to improve economic parameters for future geothermal projects

Frances Rizzi, Sant'Anna School
of Advanced Studies, Italy

Discussion: Deep geothermal – R&D needs, regulations, new markets

Sabine Froning, Euroheat & Power, Belgium
(tbc); Jean-Philippe Gibaud, Schlumberger
Geothermal Services, France, Member of the
Board, RHC-Platform; Raúl Hidalgo, APPA,
Spain, on behalf of GEOPLAT; Francesco Rizzi,
Sant'Anna School of Advanced Studies

Parallel session 3

Biomass Technology Panel

Moderation: Ria Kalf, Platform Bioenergie, The Netherlands / Member of the Board, RHC-Plattform

Challenges for biomass use in industrial applications

Panagiotis Gramelis, Centre for Research & Technology Hellas, Greece;
Gerold Göttlicher, EnBW Energy Baden-Württemberg, Germany / Member of the Board, RHC-Plattform

Policies for enabling the increased use of biomass for heating and cooling status update

Marcos Martin, AVEBIOM, Spain

How to go from a Vision to a Strategic Research Agenda

Margarita de Gregorio, APPA, Spain on behalf of BIOPLAT

Discussion

18.00 - 19.00

Framework conditions for funding research, development and innovation

Moderation: Paola Mazzucchelli, Secretary General, EUREC Agency

EIB financing instruments for financing research, development and innovation

Timo Kiiha, European Investment Bank

New national innovation funding schemes tailored to SMEs: innovation vouchers

Katharina Krell, Managing Director, Greenovate! Europe EEIG

Foresee space for a title and foresee space for a title

Innovation and industry research centres, N.N.

Discussion

19.00

Get together

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Programme · Wednesday · 24 February 2010

09.00 - 10.00

Perspectives for the renewable heating and cooling sector

Moderation: Nigel Cotton, European Copper Institute/ Member of the Board, RHC-Plattform

The European Heating Market: Emerging Opportunities for Renewable Heating Technology

N.N., Frost & Sullivan

Views from the European Heating Industry

N.N.

Presentation of the three focus groups of the cross cutting technology panel

Anna Land, Svensk Fjärrvärme, Sweden
Vice-President, RHC-Plattform

Discussion

10.00-12.00

Parallel sessions

Parallel session 1: District heating and cooling and large scale integration of RES

Moderation: Sabine Froning, Euroheat & Power, Belgium

Introduction – building scale vs. city scale

Yves Delaby, Dalkia and Chair of District Heating and Cooling + TP

Heating case study: 100% renewable energy district

Representative from Malmö

Cooling case study: The innovation district 22@ Barcelona

Representative from Barcelona

Regulatory Issues: From coal to biomass

Speaker from Eastern Europe

Research priorities for district heating and cooling

Anna Land, Svensk Fjärrvärme, Sweden
Vice-President, RHC-Plattform

Discussion

Parallel session 2: Thermal Energy Storage

Moderation: Simone Landolina, EUREC Agency

Exploring the potential of thermal energy storage: Introduction to the cross-cutting panel's Focus Group 2

Ivo Opstelten, ECN, Focus Group Leader, The Netherlands

PCM storage for process heat applications

Doerte Laing, DLR, Germany

Compact thermal energy storage materials for seasonal storage

Wim van Helden, Energy Research Centre of the Netherlands, The Netherlands

The thermal battery: underground energy storage

Guus van Gelder, Groenholland, The Netherlands

Thermal energy storage media for cooling applications

Li Huang, Fraunhofer UMSICHT, Germany

Discussion

Parallel session 3: Renewable energy hybrid systems (including heat pumps)

Moderation: Wolfram Sparber, EURAC, Italy

100% renewable energy from hybrid systems: today's solution or future vision!

Thomas Nowak, European Heat Pump Association (EHPA), Belgium / Member of the Board, RHC-Platform

The EnergyFlexHouse concept

Frank Elefsen, DTI, Denmark

Solar Plus: Integrating heat pumps and solar thermal energy

Hans-Martin Henning, Fraunhofer ISE, Germany

Small-scale solar heating and cooling applications. Assessment of standard configurations within the Solar Combi+ Project

Roberto Fedrizzi, EURAC research, Italy

Bridging the gap: Research for 100% renewable energy in heating and cooling

Michael Monsberger, AIT, Austria

Discussion

12.00 - 12.30

Coffee break

12.30 - 13.30

Closing session

Moderation: Gerhard Stryi-Hipp, Fraunhofer ISE / President, RHC-Platform

European policy framework on renewable heating and cooling

Christine Lins, Secretary General, EREC, Belgium

Cities, towns and renewable energy – Yes In My Front Yard (YIMFY)

Ralph Sims, Centre for Energy Research Massey University, New Zealand

The importance of the Spanish Technology Platforms BIOPLAT and GEOPLAT for the development of the renewable energy sector in Spain

José María González Vélez, President of APPA-Spanish Renewable Energy Association-Secretariat of BIOPLAT (Spanish Biomass Technology Platform) and GEOPLAT (Spanish Geothermal Technology Platform)

Closing words

Gerhard Stryi-Hipp, Fraunhofer ISE / President, RHC-Platform

13.30

Lunch

The European Technology Platform on Renewable Heating and Cooling (RHC-Platform)

The European Technology Platform on Renewable Heating & Cooling (RHC-Platform) brings together industry, research and policy stakeholders from the biomass, geothermal and solar thermal sectors to determine a common strategy for increasing the use of renewable energy technologies in heating and cooling.

Building on the experience acquired since 2005 within the European Solar Thermal Technology Platform (ESTTP), now incorporated in the RHC-Platform, four major European

organisations – EUREC, AEBIOM, EGEC and ESTIF – are spearheading the development of a common Vision and a Strategic Research Agenda for the renewable heating and cooling sector in Europe.

The RHC-Platform, officially endorsed by the European Commission since October 2008, is playing a decisive role in maximising synergies and strengthening efforts towards research, development and technological innovation which will consolidate Europe's leading position in the sector.

Secretariat

EUREC, ESTIF,
AEBIOM, EGEC

RHC-Platform Board

(3 representatives from each panel, including President and 3 Vice Presidents)

Support Group

All members
Annual conference

Research Topics

Solar Thermal Technology Panel	Biomass Technology Panel	Geothermal Technology Panel	Cross Cutting Technology Panel
Chairman Gerhard Stryi-Hipp (Fraunhofer ISE)	Chairman Kari Mutka (VAPO)	Chairman Fabrice Boissier (BRGM)	Chairwoman Anna Land (DHC+TP)

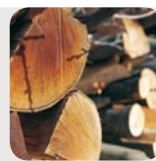
Market & Policy topics

Market Deployment Working Group

Common Vision, Capacity building,
Training

R&D Policy Working Group

Strategic Energy Technology Plan (SET Plan),
European Industrial Initiative (EII),
Financing Low Carbon Technologies (LCTs),
Framework Programmes



The RHC-Platform main objectives are:

- Defining a common **Vision** for the short-, medium- and long-term evolution of the renewable heating and cooling sector in Europe.
- Setting up a shared **Strategic Research Agenda** (SRA) for all renewable heating and cooling technologies which sets out the research priorities to maintain Europe's scientific and industrial leadership in the renewable heating and cooling sector.
- Establishing and implementing a **roadmap** for the large scale **development and deployment of renewable heating and cooling systems**, including a programme to harmonise Europe's training and education, whilst renewing its research infrastructures.

How to join the RHC-Platform

To join the RHC-Platform please download and fill in the official application form which is available on the website: www.rhc-platform.org

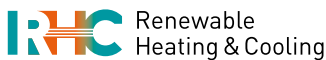
Participation in the RHC-Platform is free of charge and on a voluntary basis.

Contact:

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The RHC-Platform Secretariat is managed by:





European Technology Platform

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Disclaimer

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The RHC-Platform is official partner of the Sustainable Energy Europe Campaign (www.sustenergy.org)

