

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

23-24 February 2010,  
Bilbao (Spain)

[www.rhc-platform.org](http://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 Striy-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  
on Renewable Heating and  
Cooling  
c/o EUREC Agency  
Renewable Energy House  
rue d'Arlon 63-67  
1040 Brussels  
Tel: +32 2 546 19 30  
Fax: +32 2 546 19 34  
Email:  
info@rhc-platform.org  
Website:  
www.rhc-platform.org

## 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

PSE AG  
Mrs Maria Frank  
Emmy-Noether-Straße 2  
D- 79110 Freiburg  
Germany  
Tel: +49 (0)761 479 14 48  
Fax: +49 (0)761 479 14 44  
Email:  
conference@rhc-platform.org

## 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. Urchueguía,**  
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	<b>Opening session</b>		
11.00	Coffee break		
12.00	<b>RHC-ETP vision and round table discussion</b>		
13.00	Lunch		
14.00			
15.00	<b>Parallel sessions</b>		
16.00	1 Solar Thermal Technology Panel	2 Geothermal Technology Panel	3 Biomass Technology Panel
17.00	<b>Parallel sessions</b>		
18.00	1 Solar Thermal Technology Panel	2 Geothermal Technology Panel	3 Biomass Technology Panel
19.00	<b>Framework conditions for funding research, development and innovation</b>		
	Get together		

**Wednesday** · 24 February 2010

09.00	<b>Perspectives for the renewable heating and cooling sector</b>		
10.00	<b>Parallel sessions</b>		
11.00	1 Solar Thermal Technology Panel	2 Geothermal Technology Panel	3 Biomass Technology Panel
12.00	Coffee break		
13.00	<b>Closing session</b>		
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-Platform

##### 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-Platform

##### 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

10

## 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-Platform

#### 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-Platform

#### 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-Platform

#### 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



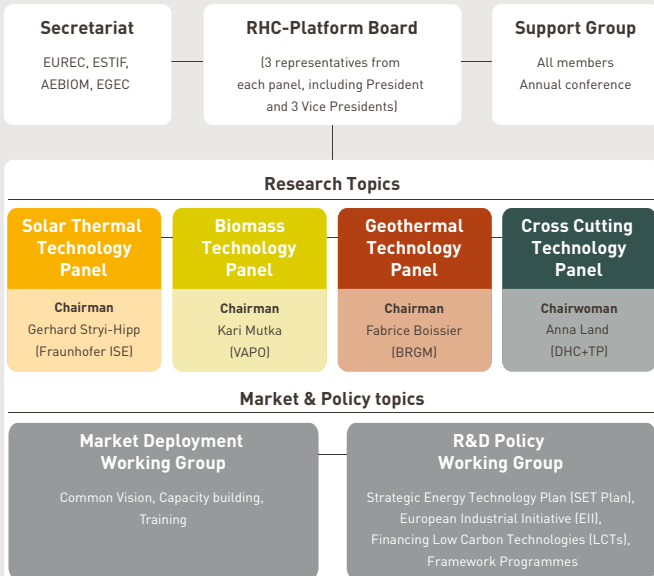
## The European Technology Platform on Renewable Heating and Cooling (RHC-Platform)

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.



## 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](http://www.rhc-platform.org)

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

### Contact:

RHC-Platform Secretariat  
c/o EUREC Agency  
Rue d'Arlon 63-67  
B-1040 Brussels (Belgium)  
Tel: +32 2 546 19 30  
Fax: +32 2 546 19 34  
Email: [info@rhc-platform.org](mailto:info@rhc-platform.org)  
Web: [www.rhc-platform.org](http://www.rhc-platform.org)

The RHC-Platform Secretariat is managed by:





European Technology Platform

RHC-Platform Secretariat  
c/o EUREC Agency  
Rue d'Arlon 63-67  
B-1040 Brussels (Belgium)  
Tel: +32 2 546 19 30  
Fax: +32 2 546 19 34  
Email: [info@rhc-platform.org](mailto:info@rhc-platform.org)  
Web: [www.rhc-platform.org](http://www.rhc-platform.org)

#### Disclaimer

This publication is a combined effort of the RHC-Platform. The RHC-Platform is co-funded by the European Commission through the FP6 Programme. The sole responsibility for the content of this publication lies with the authors. It does not represent the opinion of the European Communities. The European Commission is not responsible for any use that may be made of the information contained herein.



The RHC-Platform is official partner of the Sustainable Energy Europe Campaign ([www.sustenergy.org](http://www.sustenergy.org))

