

# European Geothermal Energy Council

## EGEC



- Established in 1998
- Located in Brussels, Belgium – Renewable Energy House
- Member of IGA (International Geothermal Association), EREC, (European Renewable Energy Council), EUFORES (European parliamentary network)
- 87 members from 23 different European countries

**The voice for geothermal energy in Europe**

# EGEC members



- **National geothermal associations, for example :**
  - **GtV (Germany)**
  - **APPA (Spain)**
  - **HGA and HTES (Hungary)**
  - **NVOE & Stichting Platform Geothermie (Netherlands)**
  - **SVG/SSG (Switzerland)**
  
- **Industry sector, for example :**
  - **G.E.I.E Soultz, Schlumberger, GPC IP (France)**
  - **Porcio, Pannergy, CEGE (Hungary)**
  - **Mannvit (Iceland)**
  - **Turboden (Italy)**
  - **Petratherm (Spain)**
  - **Geowatt (Switzerland)**
  
- **Public organizations, for example:**
  - **BRGM, ADEME (France)**
  - **ISOR (Iceland)**
  - **CRES (Greece)**
  - **CEGE Larderello (Italy)**
  - **Univ. Darmstadt (Germany)**

# EGEC - Organisation



- **EGEC Board**
  - Burkhard Sanner, President (Germany)
  - Tefvik Kaya, Vice President (Zorlu, Turkey)
  - Peter Seibt, Vice President (GTN Engineering, Germany)
  - Miklos Antics, Secretary (GPC – GeoProduction, France/Romania)
  - Christian Boissavy, Treasurer (Geopetrol, France)
  - Doina Cucueteanu, Member (ASA, Romania)
  - Olafur Flovenz, Member (ISOR, Iceland)
  
- **EGEC Thematic Coordinators 2007-2010**
  - Coordinators for Science, R&D: F Boissier (France) & R Minder (Switzerland)
  - Coordinators for Policy: P Ungemach (France) & R Goodman (Ireland)
  - Coordinator for Electricity: R Bertani (Italy)
  - Coordinator for H&C: E Mands (Germany)

# EGEC - Activities



- **Communication, general promotion of geothermal energy use in Europe and of EGEC: website : [www.egec.org](http://www.egec.org) ; newsletter, brochures, events**
- **Projects: K4RESH, Ground Reach, GTRH, Restmac, Geotrained...**
- **Papers:**
  - **EGEC Brussels declaration 2009**
  - **EGEC Geothermal Research Agenda 2008-2030**
  - **Geothermal h&c Action Plan 2007**

# EGEC Brussels Declaration 2008



## - perspective to 2030 -

- The numbers we set now in 2009 for the year 2030 might be achieved with RES Directive and national measures:

### Targets for all of Europe (EU-27 and the rest)

	2007	2010	2020	2030
<i>Heating</i>				
capacity installed	14'114 MW	20'000 MW	50'000 MW	80'000 MW
heat delivered	3,8 Mtoe	5,5 Mtoe	13,7 Mtoe	22 Mtoe
<i>Electric power, conservative approach</i>				
capacity installed	960 MW	1'300 MW	5'000 MW	15'000 MW
power delivered	6.9 TWh/y	9.8 TWh/y	39 TWh/y	117 TWh/y
<i>Electric power, ecologically driven approach</i>				
capacity installed	960 MW	1'300 MW	10'000 MW	30'000 MW
power delivered	6.9 TWh/y	9.8 TWh/y	78 TWh/y	234 TWh/y

# EGEC Research agenda 2008



- **EGEC proposes a R&D agenda to foster the development of geothermal energy and lower its cost.**
- **The R&D needs were determined through a consultation process among the geothermal community**

- **Priorities :**

- Deep geothermal :**

- **Drilling improvements**
    - **Resource identification**
    - **Enhanced geothermal systems**

- Shallow geothermal :**

- **Heat pumps**
    - **Hybrid systems**
    - **Energy storage**

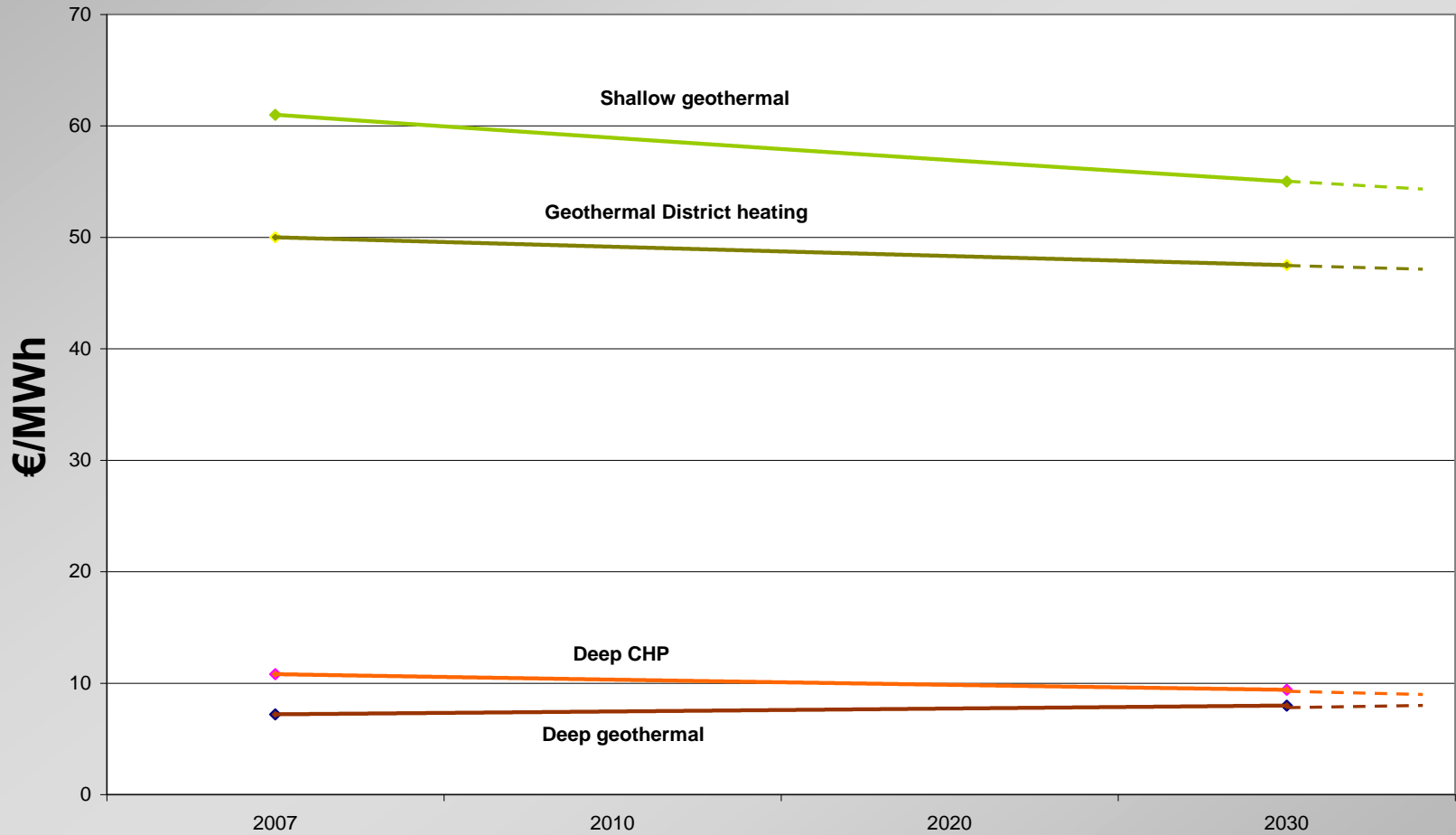


European  
Geothermal  
Energy  
Council

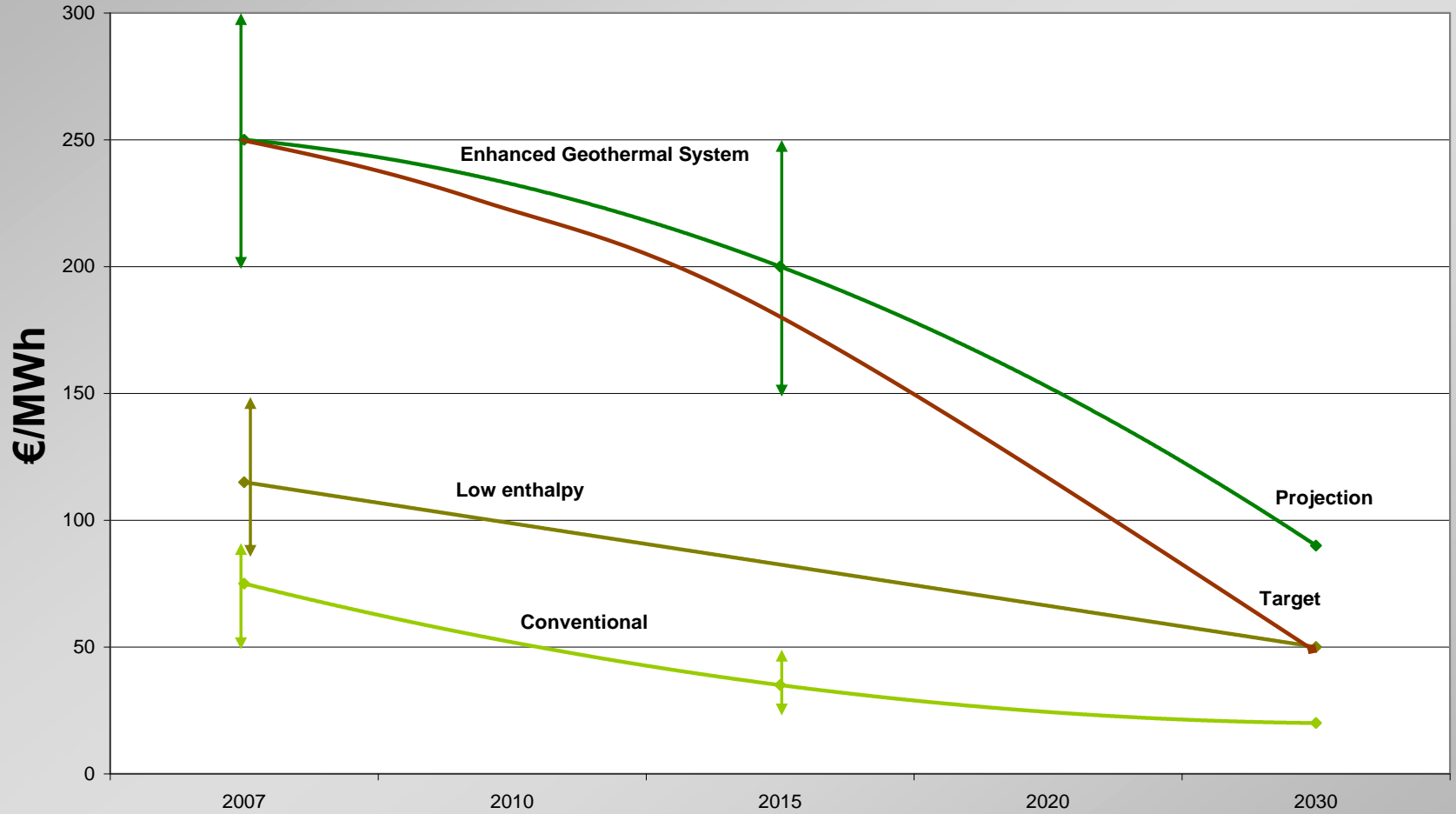
## RESEARCH AGENDA FOR GEOTHERMAL ENERGY Strategy 2008 to 2030



# Geothermal heat



# Geothermal electricity





# ETP-RHC : a European technology platform dedicated to renewable heating and cooling



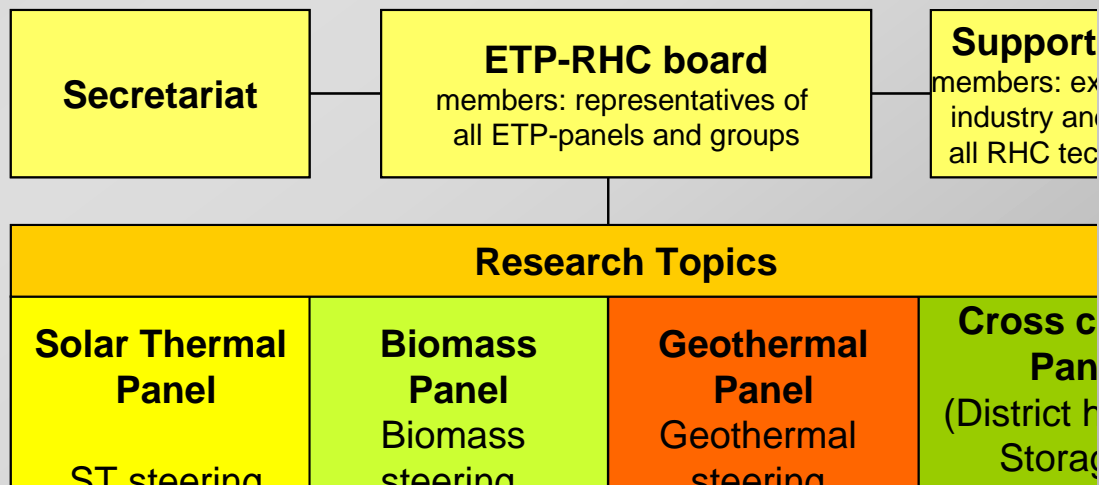
- What is a technology platform ?

At the initiative of the Commission and **industry**, "Technology Platforms" are being set up, which bring together companies, research institutions, the financial world and the regulatory authorities at the **European level** to define a **common research agenda and strategy** which should mobilise a critical mass of - national and European - **public and private resources**

# Why a RHC technology platform ?



- **EGEC has been asking for a geothermal technology platform**
- **ESTIF proposed a TP on solar thermal**
- **European Commission position :**
  - **the TPs don't reach the "critical mass"**
  - **Let's make a common platform dedicated to renewable heating and cooling**



# The geothermal panel gives the opportunity for the geothermal community to gain visibility



## Advantages :

- An easy access to European decision makers
- A support from European commission
- Synergies with others renewables

## • Disadvantages :

- It is restricted to H&C

## • ...but

- underground technologies are common issues for H&C and electricity production
- Combined heat and power has a huge potential in continental Europe

# The geothermal panel



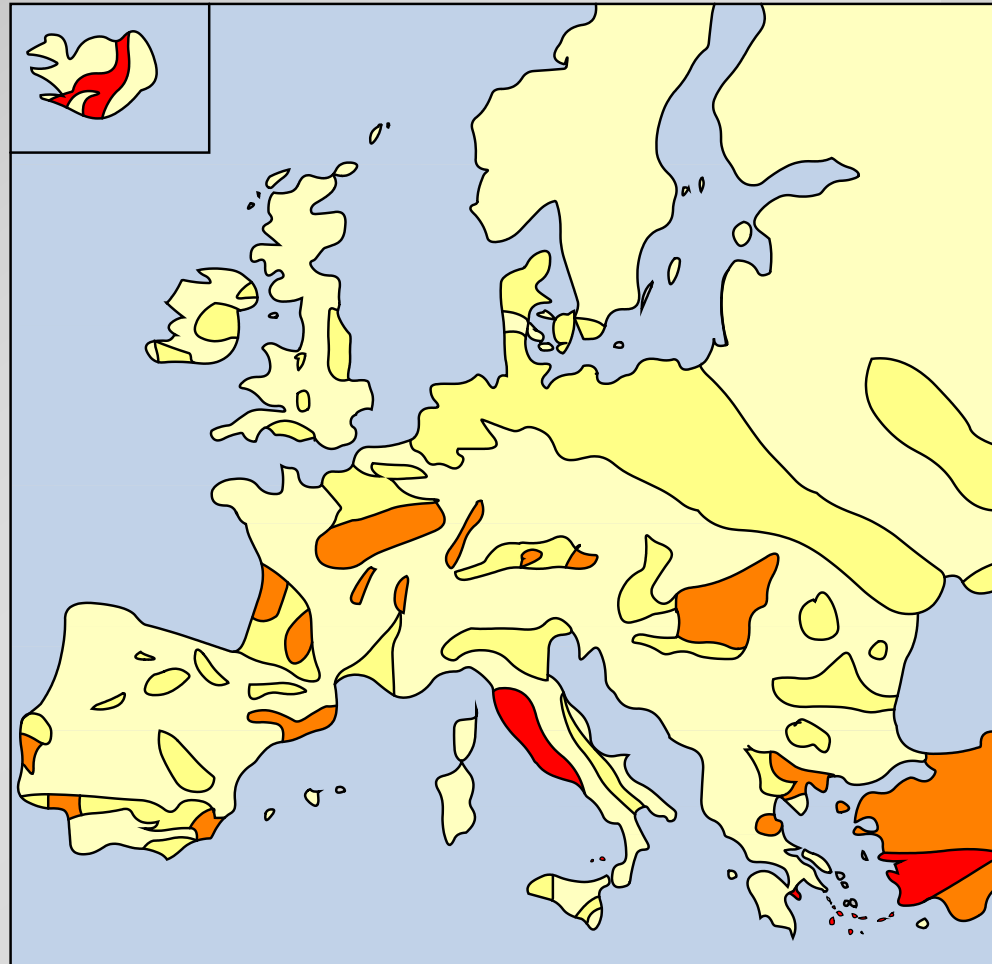
- **Proposed structure :**
  - **Steering committee : around 15 members, chosen by a selection committee on following criteria**
  - **Proposed Focus groups :**
    - **Shallow geothermal (heat pumps)**
    - **Deep geothermal**
    - **Combined heat and power**
    - **Market and regulation**
    - **Training and communication**
- **Kick-off meeting : 26th of June, in Brussels**

**It's Next week !!**

**For more information:**



**[www.egec.org](http://www.egec.org)**



***Thank you for your attention!***