The Geothermal TP: Future activities

Brussels, 23rd September 2015

Javier Urchueguia, Geoplat- UPV
New RHC platform structure

Each one of the five Steering Committees delegates three representatives to the RHC-Board. The Cross-cutting Panels delegates six representatives.

Each one of the five Panels is managed by a member of the Secretariat. Each Panel elects a Steering Committee.

- Solar Thermal Technology Panel
- Biomass Technology Panel
- Geothermal Technology Panel
- Heat Pumps Technology Panel
- Cross-cutting Technologies Panel
Steering Committee Geothermal TP

• Chairman: J Urchuegia (Geoplat)
• Vice-chairmen: B Sanner (EGEC) and F Batini (Magma/Rete geotermica)
• Members: V Van Heekeren (SPG), A Kujbus (Geoex), I Berre (CMR), L Pockele (RED), M Stibitz (Geomedia), J Salisbury (GSHPA)
Michal Stibitz
• Vision and R&D priorities for geothermal heating & cooling 2030 : 2009

• Strategic Research Agenda for geothermal heating & cooling : 2012

• Geothermal Implementation Roadmap: February 2014...2020
2014: Activities

The geothermal panel was particularly active during 2014, with EGEC organising eight events for the group:

- 2 large workshops (90+ participants) in Jan. and Sept.
- 2 webinars: in June and Dec.
- 2 B2B meetings: in Jan. and March (offenburg)
- 2 dedicated seminars: Induced seismicity (Jan.) and EGS (Dec.)
2014: Activities

The results are outstanding.

Four projects (two shallow and two deep geothermal) have been accepted from the calls 2014 and will now be funded under the Horizon 2020 programme:

1) Deep drilling: Thermodrill and DESCRAMBLE
2) Shallow drilling: Cheap-GSHPs and GeoTech

This is much more than has been received in the past by the geothermal sector!
2014: Activities

LCE2-2014: 10 proposals, 4 short listed, 3 offers, 2 accepted!

LCE2-2015: 19 proposals, soon answers about projects accepted

LCE3-2014: 5 proposals, 2 accepted!

LCE3-2015: soon answers about projects accepted
## 2014: Activities

### Low Carbon Energy Outcomes (553,8M€)

<table>
<thead>
<tr>
<th>Fields (eranet+berlin)?</th>
<th>2014</th>
<th>2015</th>
<th>Total</th>
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<tbody>
<tr>
<td>Alternative fuels</td>
<td>6</td>
<td>4,5</td>
<td>10,5</td>
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<td>Biofuels/Bioenergy (CHP)</td>
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<td>26,6</td>
<td>82,7</td>
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<td>CSP</td>
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<td><strong>Geothermal</strong></td>
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<td>Ocean Energy</td>
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<td>Photovoltaic</td>
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<td>8,8</td>
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<td>Solar Heating &amp; Cooling</td>
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<td>4,4</td>
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<td>Wind</td>
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<td>New Knowledge Technology</td>
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<td>SSH</td>
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<td>7,7</td>
<td>21,3</td>
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<td>Market Uptake measures</td>
<td>20,3</td>
<td>18,5</td>
<td>38,8</td>
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<td>Decarbonisation of the use of fossil fuels</td>
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<td>34,3</td>
<td>67,6</td>
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<td>MS Joint Actions (ERANET&amp;CSA)</td>
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<td>36,1</td>
<td>69,9</td>
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<td><strong>Total</strong></td>
<td>280,4</td>
<td>273,4</td>
<td>553,8</td>
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</table>
2015: Activities

- 1 workshop in March during Geotherm Offenburg
- 1 workshop and 1 Brokerage event in September
- 1 webinar in December?
- Dedicated seminars: Technical guidelines for GSHP, etc.
Towards an integrated SET-PLAN

EC Communication adopted on 15/09/2015, identifies the need to:

– reinforce the implementation of actions beyond EU-funded projects

– strengthen the financial commitment from Member States and the private sector

– broaden the participation of stakeholders along the innovation chain in the various structures

– improve the reporting from Member States on national research and innovation priorities and investments

- Increase cooperation between industry and research and between member states
Towards an integrated SET-PLAN

Actions:
- **Next generation of RES a core priority:** in particular offshore wind, ocean energy, bioenergy, geothermal technologies, solar thermal, and technologies that convert power into chemicals and fuels.

- **A more integrated approach:** moving away from a vertical and technology-specific focus, to embrace a more horizontally integrated approach (focus on flexibility).

- **A new SET Plan management:** to ensure an increased transparency, accountability and monitoring of the progress achieved, as well as result-oriented approach.

- **Streamlining of current Technology platforms, European Industrial initiatives, etc.**
Next Activities

• New SET Plan communication: merge TPs and Industry initiatives

➢ Towards a ETIP (European technology and Innovation Plaform) on geothermal?

- Define specific strategic targets: on EGS, new turbines, smart geothermal grids, new generation of GSHP for retrofit buildings etc.

- Call to Industry and Member States
Next Activities

• New Activities proposed:

1) Monitor research results: EU and national projects

2) Update the implementation roadmap

3) Assess competitiveness of the European geothermal industry: global competition, supply chain, business models…

4) Define export strategy, cooperation and technology transfer issue