

Report on Annual conferences

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ETIP-DG

European Technology & Innovation
Platform on **Deep Geothermal**

www.etip-dg.eu

INTRODUCTION

The Annual Conference of the ETIP on deep geothermal is the single most important periodic event of the Platform. It is a unique networking opportunity for all Members of the Platform to exchange ideas across Working Groups and to meet other European experts.

Representatives from industry, research and public authorities come together to discuss strategies and priorities for deep geothermal in Europe. Under the lead of EGEC, all Partners in the Secretariat of the ETIP contribute to the organisation and management of this key event. Programme definition, logistics, communication, registration are coordinated by all three partners.

The two annual Conferences organised during the project duration (2018 and 2019) were planned and organised in close agreement with the Steering Committee of the Platform.

ANNUAL CONFERENCE 2018

AGENDA

ETIP-DG Annual Conference 2018 19th June 2018, Brussels

Location: **Brussels, Belgium**

09:00	Welcome coffee
09:30	From the Vision to the Strategic Research Agenda (SRA) & its implementation Moderation <i>A. Manzella, CNR-IGG</i> Vision principles for the SRA – create Mission objectives <i>A. Manzella, CNR-IGG</i> SRA process and structure <i>A. Manzella, CNR-IGG</i> SET Plan Implementation Plan <i>L. Torsello, COSVIG</i> Horizon Europe (FP9) Status <i>F. Gagliardi, European Commission</i> RHC-ETIP: Common challenges <i>J. Urchueguia, RHC-ETIP</i>
11:00	Coffee Break
11:30	H2020 – Lessons learnt and projects results Moderation <i>P. Dumas, EGEC</i> Overview of geothermal RD&I projects Roundtable with representatives of geothermal projects Research, Development & Innovation framework WG Non-Technical <i>B. Leray, Storengy</i>
13:00	Lunch Break
14:00	Presentation of items for the Strategic Research Agenda Moderation <i>B. Laenen, VITO</i>



WG Exploration | *J. van Wees, TNO*

WG Deep Drilling | *E. Huenges, GFZ*

WG Production Technologies | *F. Batini, Magma Energy Italia*

WG Surface systems / Generation | *M. Baresi, Turboden*

15:30 Coffee Break

16:00 **Discussion and conclusions on items**

17:30 End of meeting

MINUTES

The Annual Conference 2018 of the European Technology and Innovation Platform on Deep Geothermal (ETIP-DG) took place on Tuesday 19th June, in Brussels, Belgium.

It was attended by 45 ETIP-DG members.

The event assessed the work carried out by the platform so far and further its work for the development of the Strategic Research and Innovation Agenda (SRIA), which defines the European research priorities to 2050. The priorities have been presented and discussed during the event, to further the work for their inclusion in SRIA that was planned to be released in Autumn 2018.

Presentations

- [Vision for Deep Geothermal](#) (A. Manzella, CNR, ETIP-DG Secretariat)

Adele Manzella, coordinator for preparing the Vision document, presented the Vision which was officially published in March 2018 after 8-months work.

She concluded her presentation by presenting the role deep geothermal could play in the Mission objectives for Horizon Europe under discussion.

- [SRIA for Deep Geothermal](#) (A. Manzella, CNR, ETIP-DG Secretariat)

Adele Manzella, also nominated coordinator for preparing the Strategic Research and Innovation Agenda, delivered a presentation on the current statutes of work. Following the publication of the Vision document, ETIP-DG working groups have launched their activities on the SRIA. The annual conference was an opportunity to wrap-up and decide about next steps in listing research topics.

She also presented the objectives of the Geothermal Document Search Engine (GDSE) prepared by the secretariat (project DG-ETIP).

Participants agreed about the structure of the SRIA and the table of contents.

SRIA working documents and presentations are available in the Members Area.

Participation to the activities of the ETIP-DG is free and on a voluntary basis. Members are informed about the activities of the ETIP-DG and are invited to contribute to the drafting of the Strategic Research Agenda and the Technology Roadmap.

- [EU support to geothermal energy and Horizon Europe](#) (F. Gagliardi, European Commission)

Filippo Gagliardi, Policy Officer at the EC, Renewable energy sources Unit of DG RTD, firstly informed participants about recent development in the SET Plan and especially the publication of the Deep Geothermal Implementation Plan prepared by the Temporary WG and endorsed by the SET Plan steering committee.

He then presented the basic structure of Horizon Europe and the ongoing discussion about the clusters.

- [The Deep Geothermal Implementation Plan](#) (L. Torsello, CoSviG, Deep Geothermal TWG)
Loredana Torsello, from the TWG on Deep Geothermal Chairs Team, summed up the work done by the TWG: setting targets in the Declaration of Intent Deep Geothermal Energy, establishing and finalizing composition of the Temporary Working Group, agreed on priorities and drafted fiches.

- [RHC ETIP: role, evolution and new perspectives to improve geothermal R&D | RHC-ETIP new structure](#) (J. Urchueguia, RHC-ETIP)

Javier Urchueguia, Chairman of the Geothermal Panel, presented to the participants the new structure of the RHC-ETIP and the creation of Horizontal WGs. He also highlighted the necessary synergies between the geothermal panel dealing with shallow and deep geothermal technologies for heating and cooling and the ETIP-DG dealing with deep geothermal technologies for both power and heat production.

He finally reported about the experience of the geothermal panel in drafting and implementing a Research Agenda and a Roadmap.

Roundtable: H2020 – Lessons learnt and projects results

Power points presentations available are the following:

- [SURE](#)
- [Destress](#)
- [CHPM2030](#)
- [MATChING](#)
- [ThermoDrill](#)
- [MEET](#)

The panelists were:

SURE: coordinator Thomas Reinsch, GFZ

Destress: coordinator Ernst Huneges, GFZ

CHPM2030: partner Madarász Tamás University of Miskolc

Matching: partner Sandra Scalari, Enel GreenPower

Thermodrill: coordinator T. Stoxreiter, Montanuniversitaet leoben

MEET: coordinator, Albert Genter, ES

GeoWell, coordinator Árni Ragnarsson, ISOR,

DEEPEGS: coordinator Guðmundur Friðleifsson, HS Orka

The discussion between the panelist was about their project results, the complementarity the different projects could have and how they could better cooperate.

One conclusion was to work on better sharing project results so to emphasize communication and dissemination activities.

The annual conference 2019 ended with a discussion to prepare the afternoon session with WG meetings in parallel.

ANNUAL CONFERENCE 2019

AGENDA

ETIP-DG Annual Conference 2019

13th June 2019, The Hague

Location: Den Haag, Netherlands

16:30 **The Roadmap 2020-2030 on Deep Geothermal**

ETIP-DG activities 2019

Roadmap process and structure

16:45 **Presentation of items for the Roadmap**

Prediction and assessment of resources

Resource access and development

Heat and electricity generation

From RD&I to deployment

Knowledge sharing

Next generation of technologies

17:30 **The Implementation Phase**

Overview of funding instruments

New RD&I European research projects

Synergies with the IWG on Deep Geothermal

18:00 End of meeting

MINUTES

The Annual Conference 2019 of the European Technology and Innovation Platform on Deep Geothermal (ETIP-DG) took place on Thursday 13th of June, in The Hague, Netherlands, after the closing of the European Geothermal Congress EGC2019.

The event presented the work carried out by the platform so far and the final draft of the Implementation Roadmap, which defines the European research priorities to 2020 to 2030. The priorities have been presented, discussed and validated during the event. Latest inputs provided during the event, were integrated in the final version of the Roadmap. It was attended by 50 ETIP-DG members.

Presentations:

ETIP-DG activities 2019 by Fausto Batini (Chairman ETIP-DG)

F Batini presented the main achievements of the ETIP-DG during the last year. He highlighted the link between the Vision Document published in March 2018, the SRIA released in April 2019 and the ongoing drafting of the Roadmap.

He mentioned that the structure of the Roadmap is coming from the Vision and is following the work of the SRIA on research topics.

Roadmap process and structure by Adele Manzella (CNR-IGG, ETIP-DG secretariat)

A Manzella described the structure of the Roadmap and presented the table of contents agreed by the SC.

She presented the two past and the current working phase:

- Phase 1 (January 2019-March 2019): Collect data and discuss RD&I priorities for the relevant theme of the WG, taking the SRIA as a basis.
- Phase 2 (March 2019-April 2019): SC prepare a list of topics to be included in the Roadmap. Questionnaire

Phase 3 (May-June 2019): Validation of the Roadmap during an open consultation process and publication.

She concluded by presenting the Results of the consultation of the Steering Committee ETIP-DG for defining research priorities of the Roadmap. Members of the SC have ranked the research topics of the SRIA by level of priority, timeline and related targets.

The results of this consultation served as a basis for drafting the Roadmap.

Presentation of items for the Roadmap by Fausto Batini (Chairman ETIP-DG)

F Batini presented the different items for the Roadmap:

- Prediction and assessment of resources
- Resource access and development
- Heat and electricity generation
- From RD&I to deployment
- Knowledge sharing
- Next generation of technologies

He also indicated the budget allocated for each chapter. This launched the discussion of the third part for this Annual Conference, about the implementation Phase.

The first discussion was about the funding instruments and here a representative from Geothermal ERANET presented the new calls of Geotermica.

M Soede, Policy Officer at the EC, Renewable energy sources Unit of DG RTD, firstly informed participants about recent development in the SET Plan and then about the future program Horizon Europe and especially regarding the budget.

During the discussion on the budget of the Roadmap, several participants requested to allocate more amount for market development and for prediction and assessment of resources.

As a conclusion, it was agreed to slightly review the budget without changing it dramatically as it has already its logic: period 2010-2020 and 2020-2030...

Another discussion was about the international dimension of this Roadmap. It was agreed to mention it in the Roadmap by giving some examples (Gemex...).

Finally, the discussion touched upon the synergies with the IWG on Deep Geothermal. The participants discussed the targets agreed by the SET Plan in the Declaration of Intent Deep Geothermal Energy. ETIP-DG members considered the need to refer to these six targets, but also to have more precise targets accompanied by Key performance Indicators for each research priorities included in the Roadmap.



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