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GEOELEC

Develop Geothermal Electricity in Europe to have a renewable energy mix

Intelligent Energy – Europe (IEE)

ALTENER

Key action: CIP-IEE-2010.2.1

Report on National Promotional Workshop in the Netherlands on 29 November 2013

Due date: 30/11/2013

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1. Objectives of the promotional workshop

The meeting was organized on 29 November 2013 at TNO office in Utrecht. The workshop aimed at informing the Dutch geothermal community about the results of the GeoElec project. In order to put GeoElec into a wider context, presentations on a few other European geothermal projects were added to the programme. The workshop was called *Geothermal Energy in the Netherlands in European Context*, offered five presentations, and closed with a 30-minute panel discussion. A long coffee break and a Dutch borrel (drinks and food) offered plenty of time for networking. The workshop day was announced in TNO's geothermal network including website announcement of Platform Geothermie (www.geothermie.nl) and Think Geoenergy (www.thinkgeoenergy.com).

29 NOVEMBER 2013, TNO UTRECHT

GEOTHERMAL ENERGY IN THE NETHERLANDS IN EUROPEAN CONTEXT

TNO innovation for life

Photo of the Landau Geothermal Site
Courtesy to BESTEC GmbH

PROGRAM

Coffee (12:30)

OPENING (13:00)
Chris te Stroet (Director of innovation TNO) and Henk Pagnier (TNO, chairman)

THE EU RESEARCH PERSPECTIVE (13:15)
David Bruhn (GFZ-Potsdam)

LEARNINGS FROM EU PROJECTS (13:45)
Jan Hopman and Jan-Diederik van Wees (TNO)

GEOELEC (14:30)
Philippe Dumas (EGEC)

BREAK (15:10)

RESOURCE ASSESSMENT (15:40)
Thijs Boxem (TNO)

IMPLICATIONS FOR DUTCH GEOTHERMAL (16:10)
Jan-Diederik van Wees (TNO)

PANEL DISCUSSION (16:30)
Participants to be announced

DRINKS (17:15)

Dutch innovations in the Geothermal Energy sector must be seen in a wider, European context. This symposium sheds light on the state-of-the-art of Geothermal Energy in Europe.

David Bruhn will introduce developments in the geothermal EU research arena, in the framework of the *European Energy Research Alliance*, and perspectives in Horizon2020

Jan Hopman and Jan-Diederik van Wees present (expected) outcomes of various EC projects: *GEISER* focuses in depth understanding of induced seismicity and *IMAGE* is targetted at advanced geothermal exploration techniques.

Philippe Dumas reports results of the EC project *GEOELEC* which examined the potential of geothermal electricity in Europe.

After the break we present methodology and results of the European Resource Assessment within *GEOELEC*, and place the learnings from EU projects in the perspective of dutch geothermal resources and thermoGIS.

The current version of thermoGIS has not only been improved and extended with new maps. We also launched ThermoGIS Basic: a simplified version of the original one, published on the renewed website: www.thermogis.nl.

We conclude the symposium with a panel discussion of important stakeholders in the Geothermal Energy sector.

Free symposium registration until 25 November 2013 to:
thermogis@tno.nl
(Subject: Geothermal Symposium)

LOCATION
Princetonlaan 6, Utrecht

Information: Tel 088 088 9881 Mail thijs.boxem@tno.nl

TNO.NL | GEOELEC.EU

Logos: GEISER, EERA, GEOELEC

Invitation for the Dutch Promotional Workshop at TNO in Utrecht on 29.11.2013.

2. Workshop report

65 participants, of which 15 TNO personnel, followed the invitation to this workshop. Participants represented different fields of the geothermal sector including research institutions, geothermal developers, horticultural companies and consultants, public funding organizations, and banks.

The meeting was opened by Chris te Stroet (Director of Innovation at TNO) who pointed out the usefulness and importance of geothermal energy in future. The first presentation, given by David Bruhn, gave an overview on geothermal research projects within the European Energy Research Alliance. Jan Hopman and Jan Diederik van Wees informed the audience on two EU funded projects: GEISER (recently finished) and IMAGE (recently started up). This was followed by Philippe Dumas who presented the results of the GeoElec project before coffee break.

After coffee break Thijs Boxem reported about the resource assessment study we carried out in GeoElec and presented a set of geothermal potential maps for 2020, 2030, and 2050. These maps are available publicly in the GeoElec Viewer, a web tool for visualizing earth temperatures and geothermal potential in Europe. In the last presentation Jan Diederik van Wees shed light on the situation in the Netherlands with respect to geothermal energy.

The workshop was concluded with a panel discussion on geothermal in the Netherlands. The five members of the panel were: Victor van Heekeren (Platform Geothermie), Paul Ramsak (Netherlands Enterprise Agency), David Bruhn (TU Delft), Léon Lankester (Agro AdviesBuro), and Patrick Zwaan (Rabobank Nederland). The discussion was guided by Ronald den Boogert (TNO). The – partly controversial – discussion was about chances and challenges of the development of the geothermal energy sector in the Netherlands in the coming 30-50 years.

3. Feedback analysis

TNO was very happy with the number of participants. 55 external visitors and 15 TNO personnel were present during the workshop which is regarded as good taking into account the many geothermal events organized in Europe each week. The fact that visitors from both the research and applied geothermal sectors were attracted shows that the programme was interesting enough to bring people from the different sectors involved in geothermal together. The workshop clearly indicated the necessity of a more intense collaboration between research institutions, the applied sector, consultants, governmental institutions, and public and private funding organisations in the geothermal world. This workshop was a good opportunity to bring representatives of these different parties in the Netherlands together: people were heavily networking and thus, networking was the main benefit of the promotional workshop.