

A word from the EGEC president

Dear members of EGEC, dear readers of this newsletter,  
 Welcome to the first EGEC Newsletter of 2016! This is the time to take a quick look back, but mainly to look forward into a new year full of exciting opportunities.

A look back at the geothermal highlights of 2015 can be found in the [2015 geothermal review on the EGEC website](#). For me personally, I look back at meeting the geothermal community, and in particular the EGEC members, on many occasions, in many countries. A particularly interesting event was the Geothermie.CH conference in Berne on 1.10.2015, at which the photo for this edition was taken.



For this year, the highlight will surely be EGC 2016 in Strasbourg in September. The abstract review process is done, and the authors can expect the results to be communicated soon. I would like to thank the members of the Scientific Committee of EGC 2016 for all their work during the last weeks.

We can expect some 150 oral presentations, almost 200 posters, and a number of roundtables in the policy and markets stream.

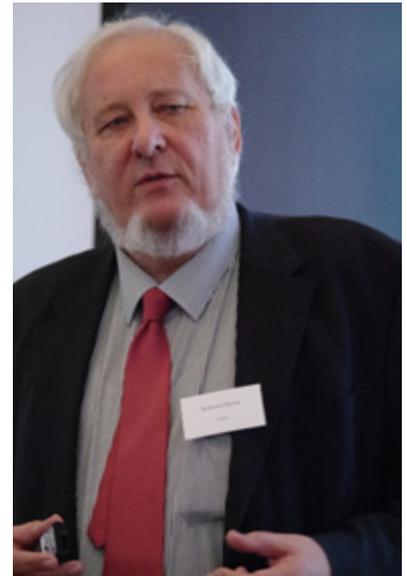
The highlight of the next month will be [GeoTherm Offenburg](#) on 25-26 February. For the European Geothermal Innovation Award 2016 we received several exciting nominations, showing clearly that the sector is responding with development and innovation to the current challenges. The evaluation process still is ongoing, and the shortlist of endorsed nominations shall be published soon.

European Geothermal  
 Innovation Award



In Brussels, work is in full swing on existing dossiers and on new issues coming up. Here I mention two important ones:

1. On 10<sup>th</sup> of February, the European Commission is to unveil its “security of supply package” with the long awaited EU Strategy on Heating and Cooling. The package will also include an update of the European energy security strategy, the revision of a regulation on security of gas supply as well as a new strategy on LNG. I hope the coveted concept of “better regulation” is translated into more consistency between different streams of energy policy. And I hope this package is more balanced towards renewables for heating and cooling, instead of supporting large scale infrastructure for the old gas. Fuel switching must be a priority, and taxpayer’s money should not be wasted in soon-to-be stranded assets.



Berne, Switzerland, 1.10.2015  
 (photo: J. Wellstein)

2. The revision of the energy and climate framework, expected by the end of 2016, will be an issue for EGEC for all the year. The revision should strengthen the existing set of measures and bridge the remaining gaps. This is to ensure Europe becomes number 1 in geothermal energy, as a wider goal to be number 1 in renewables. In this regard, EGEC staff and members are busy with the [public consultation](#) on the revision of the Renewable Energy Directive; the official EGEC response is now available on the [EGEC website](#)

I look forward to seeing many of you at the geothermal trade fair in Offenburg next month!

I wish you an interesting read,

Burkhard Sanner

## Revision of the Energy Efficiency Directive, EGEC responds to European Commission's consultation

As part of the revision of energy and climate package, the European Commission is working on the revision of the Energy Efficiency Directive. Elements for consideration include: purchasing by public bodies, energy efficiency obligation schemes, metering and billing, energy efficiency national funds, financing and technical support, and review and monitoring of implementation.

In its response, EGEC states that it is still too early to draw definitive conclusions on the implementation of the current directive. However, it is already clear that measures triggering renovation of the existing building stock are so far insufficient, and that deep renovation, including the replacement of heating systems, is more effective than a quick-fix-approach; this can lock-in technologies incompatible with decarbonisation.

Indeed, in the heat sector energy efficiency and renewable energy go hand in hand and face similar barriers; a cost-optimal approach should be applied between reducing energy demand and providing sustainable renewable supply, bearing in mind the decarbonisation objective.

EGEC also stresses the need to develop a system which brings liquidity into the energy services and heat markets and for energy efficiency obligation schemes to be strengthened. Only the most efficient and renewable technologies should be eligible when it comes to the replacement of heating systems, therefore excluding the installation of new oil boilers. Last but not least, EGEC urges the Commission to review EU public accounting and finance rules in order to promote investments from the public sector. The full response is available at [egec.org](http://egec.org)

## RES Directive revision: The last few days to shape the most important piece of EU legislation for Geothermal

The Commission's public consultation on the revision of the Renewable Energy Directive is open until 10<sup>th</sup> February 2016. Elements for consideration include: planning and reporting, decarbonising the heating and cooling sector, adapting market design and removing barriers, and future support schemes.

**The Renewable Energy Directive has been the most important piece of EU legislation for the geothermal sector and a proposal for its revision is expected for December 2016. It will have a very strong impact on geothermal projects in Europe, including those currently under planning.**

As one of the benefits of membership, EGEC members have the opportunity to shape EU legislation. In a first round of internal consultation, EGEC staff has collected input from the Advisory Working Group on Policy. The next round starts on Monday, 1<sup>st</sup> February, when a new draft will be circulated to all members. This can be adapted for members' own contributions.

For more info, please contact [l.angelino@egec.org](mailto:l.angelino@egec.org)

Promoting geothermal heat pumps:  
**The Heat Under Your Feet**



## ENEL Green Power enters German market

Following the acquisition of a 78.5% stake in Erdwarme Oberland (EO), ENEL Green Power will enter the German market with the development of a 26MW plant in southern Germany.

The acquisition was carried out through the issue of new shares in EO for a total consideration of 22 million euros, covering the initial investment requirements of the project.

*"This acquisition is very significant because it opens the door for Enel Green Power to a major, stable renewable energy market such as Germany" said Francesco Venturini, CEO of EGP*

## Turboden expands in to the Asian Geothermal Market

Turboden has announced the successful operation of a 6MW plant in Japan, its first in the country, and will provide equipment to a 50MW ORC system in the Philippines.

The project in Oriental Mindoro, the Philippines, will be developed in consortium with the Spanish Company TSK, and is expected to be completed by 2017. Four turbines will deliver power to the local Electric Cooperatives, ORMECO and OMECO.

## New Heat Project Developing in Issy-les-Moulineaux, Paris, France

Dalkia are moving ahead with the heating and cooling project in Issy-les-Moulineaux,, which will heat the equivalent of 1,600 houses in Paris. Water at 28°C will be used in the network supported by 60 heat pumps at the foot of 18 buildings. The new doublet will also be a drinking water collection point for use in emergencies, and can be connected to the municipal water supply network. The Geothermal system is part of a larger development, which will see 78% of the areas energy needs met by renewables.

## Geothermal Heating System for Paris Le Bourget airport

Following successful preliminary tests, Le Bourget airport plans to develop a geothermal heating system to meet 70% of its heating and cooling needs. Forty vertical probes will be installed, supplying office and storage buildings covering around 13,000M<sup>2</sup>. It is expected that the installation will prevent the release of 27,000 tonnes of CO<sup>2</sup> annually.

## PLUTO initiative: 125 million USD to support 60MW new geothermal capacity in Turkey

The European Bank for Reconstruction and Development (EBRD) and the Clean Technology Fund have launched a programme to support exploratory drilling investments in Turkey. The 125 USD (C. 114 million EUR) support will be structured in two phases. Firstly, the CTF will finance exploration, and if this is found to be successful, the EBRD will finance the final stages of drilling and the construction of the drilling and the power plant construction.

The aim is to build five new plants with a combined capacity of at least 60 MW, generating more than 450 GWh, increasing the installed capacity in Turkey by more than 10%

## Zorlu Enerji secures feed in tariff of 0.11 2 USD/KWh for Kızıldere II and Alaşehir I plants

Zorlu has secured a feed-in tariff of 10.5 US Cents/KWh (approximately 10 Euro cents) plus an additional 0.7 USC / KWh (approximately 0,06 Euro cents) as the plants were developed in Turkey

## Second production well complete at Kocaköy, Turkey

A second production well has been completed by Transmark for the 50MWe project in Turkey. The well reaches a depth of 2,333 metres.



## EIB announces support for Theistareykir geothermal plant

During COP21, the EIB reaffirmed its 152 EUR million support for the Theistareykir plant in North-East Iceland. The 90Mwe plant will supply a new silicon metal plant with the remaining energy going to the national grid.

## Iceland deep drilling project partners awarded funding under Horizon 2020 for 'DEEPEGS'

The Deep Enhanced Geothermal Systems for Sustainable Energy Business or 'DEEPEGS' project has been awarded 20 EUR million under the H2020 programme.

"The DEEPEGS project will be testing stimulating technologies for deep EGS development, and intends to deliver new innovative solutions and models for wider deployments of EGS reservoirs for significant amounts of geothermal power across Europe. It will demonstrate the capabilities of EGS for widespread exploitation of high enthalpy systems by testing the deep roots beneath the existing hydrothermal field at Reykjanes, with temperature up to 550°C, and in very deep hydrothermal reservoirs in sedimentary basins at Valence and Vistrenque in France with temperatures up to 220°C.

EGEC regularly organises events and delivers personalised support to its members on applying for the H2020 programme. Contact the secretariat for more information.

## Call for abstracts: 6<sup>th</sup> African Rift Geothermal Conference

The Sixth African Rift Geothermal Conference (ARGeo-C6) will be held in Addis Ababa, Ethiopia 31<sup>st</sup> October- 6<sup>th</sup> November 2016, in collaboration with United Nations Environment Programme (UNEP) and African Union Commission (AUC).

Abstracts can be submitted until 15<sup>th</sup> February. For more information, [click here](#)

## 2 Surface studies and 5 drilling programmes accepted for Geothermal Risk Mitigation Fund, next application period to open in May

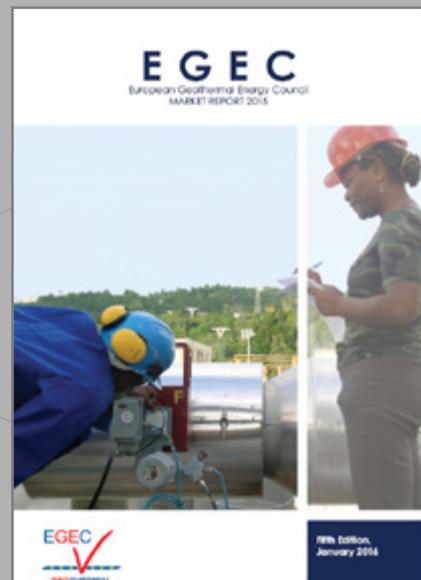
The objective of the GRMF is to encourage public and private investors (project developers) to develop geothermal prospects for power generation in Eastern Africa by providing cost share grants for surface studies and drilling of reservoir confirmation wells. 50 million Euro (approx. 62 million USD) has been made available for such grants.

The evaluation of the third round of applications to the GRMF has now been concluded and five drilling projects in Rwanda, Union of Comoros, Kenya, and Ethiopia have been accepted. Surface studies in Djibouti and Ethiopia will also be supported.

The fourth application round is due to begin in May.

## European Geothermal Market Report to be released in February

The market report includes details of **all power and large heat installations in Europe in operation, under development, and under investigation**. It also includes analysis of market trends, and a special **feature on drilling**.





## Geothermal Employment Workshop

Friday, 26 February 2016, 10:00 AM - 1:30 PM

Messe Offenburg, Germany

[Register](#)

Learn about how employment in the geothermal is changing, what the future trends will be, and how skills gaps can be filled in order for the sector to develop.



### For Candidates

- Is your profile one of the 10 most wanted in the Geothermal sector?
- How can you improve your employment prospects?
- Where to look for more information about employment
- Receive one-on-one careers advice and coaching from HR experts.

Be one of the first 20 candidates to sign up to receive a free entrance ticket to the congress.

To take part in the one-on-one career coaching session with recruitment experts, candidates should sign up to the database of candidates [here](#)

[Click here to find out more](#)

### For Employers

- How to make your recruitment and training practices more efficient
- The changing profile of new entrants
- How to build effective teams in a rapidly shifting market

In advance of the event, please complete this five minute, 15 question survey about your organisation and experience with recruitment. [Click here to take the survey](#)

## Webinar on Renewable Energy Education and Training needs

21<sup>st</sup> March 11:00 CET

This one hour webinar will what expertise is needed by the renewable energy industry and on the latest education and training needs in renewable energy.

[Click here to register by 15<sup>th</sup> February 2016](#)

[Register For the Workshop](#)

[Register for the webinar](#)



## Are you taking part in the EGC2016 Exhibition?

Taking part in the exhibition at the European Geothermal Congress is an essential opportunity for companies and organisations to present themselves to the geothermal community.

Click to find out more

The 2016 exhibition will be larger than ever, this time held in collaboration with the French event Les Journées De La Géothermie and running alongside the many business, education and policy events held over six days in the beautiful city of Strasbourg.

EGC is organised every three years by the European Geothermal Energy Council, and the accompanying sixty-booth exhibition is expected to attract nearly +1000 people from Europe and further afield.

It is a rare opportunity not to be missed!

Exhibition booth packages include:

- Twenty exhibition only tickets to invite your clients;
- Two EGC and Les Journées de la Géothermie passes including:
  - Access to all three days of EGC
  - Access to Les Journées de la Géothermie
  - Conference sessions (Tuesday and Wednesday only)
  - Entrance to the Exhibition
  - Lunch and Coffee breaks for three days
  - Congress proceedings
  - Congress banquet
  - Welcome cocktail

Discounts for EGC members

Click [here](#) to view the exhibition brochure. Booth availability can be found [here](#) and bookings can be made by emailing [info@europeangeothermalcongress.eu](mailto:info@europeangeothermalcongress.eu).

If you are already planning to attend the event and if you are interested in taking part in the exhibition you might also be interested in playing a larger role and becoming a sponsor of EGC- many of the packages include booths. More information on sponsorship can be found [here](#).

Contact the EGC Secretariat at +32 2 318 40 63 or by e-mail for further information.



[europeangeothermalcongress.eu](http://europeangeothermalcongress.eu)

# GeoTHERM

expo & congress

**25. + 26. February 2016**  
**Exhibition Center Offenburg**

## Guest of Honour: Turkey

On 25th and 26th February, GeoTHERM, Europe's leading geothermal marketplace will welcome the international geothermal industry. Over the two days, 3500 visitors will meet 190 exhibiting companies, from 40 countries in total.

Early-Bird  
Booking until 29  
January 2016

With the international trade fair and the two parallel congresses GeoTHERM addresses shallow and deep geothermal energy perspectives and challenges. It provides a stage for international high level experts and operators to discuss the latest scientific and industrial developments as well as current geothermal energy policies.

In the Key Note Speech this year, Vitor Correia, President of the European Federation of Geologists, will give a speech about the importance of geothermal energy as a clean energy source in the future. The President of the German Geothermal Association, Dr. Erwin Knapek, will welcome the audience and give an overview upon the current questions of the national industry.

Besides several international and national speeches, the Exhibition Center Offenburg is proud to welcome Turkey as the guest of honour this year.

In two reports, Prof. Orhan Mertoglu, President of the Turkish Geothermal Association, and Prof. Mahmut Parlaktuna from the Middle East Technical University in Ankara, offer insights into the geothermal market development in Turkey.

Due to the quick development in geothermal technologies today, technical engineering questions as well as best practice reports are top priority in the programme of GeoTHERM, for example the presentation on the development and expansion of deep geothermal energy extraction for heat supply to the city of Munich.

All presentatons of the congress are simultaneously translated into English, French and German. The tickets include trade fair, congress participation, the catalogue, simultaneous translation and the subscription to the online library.



Visit EGEN in booth 5

European Geothermal  
Innovation Award

# EVENTS

## Events Calendar

17e Colloque du SER	4 February	Paris, France	<a href="#">website</a>
Informatiemiddag Aardwarmte regelingen	6 February	Utrecht, the Netherlands	<a href="#">Visit website</a>
GEORG, Open Conference on Deep roots of Geothermal	18-19 February 2016	Reykjavik, Iceland	<a href="#">Visit website</a>
GeoTHERM	25-26 February 2016	Offenburg, Germany	<a href="#">Website</a>
KnowRES geothermal career day	26 February 2016	Offenburg, Germany	<a href="#">Website</a>
International Conference on District Energy 2016	20 – 22 March 2016	Portorož, Slovenia	<a href="#">Visit website</a>
KnowRES webinar on “Renewable Energy Education and Training needs”	21 March 2016	Online	<a href="#">Click here to register</a>
SEE Exhibition & Conference on Energy Efficiency & Renewables, Smart Cities	5-7 April 2016	Sofia, Bulgaria	<a href="#">Website</a>
En+Eff 2016	19 – 21 April 2016	Frankfurt, Germany	<a href="#">Website</a>
IGC2016-Iceland Geothermal Conference	26th and 29th April 2016	Reykjavik, Iceland,	<a href="#">Website</a>
International Conference and Exhibition in the Field of Corrosion and Cathodic Protection 2016	17-20 May 2016	Ljubljana, Slovenia	<a href="#">Visit Website</a>
2016 European Geothermal Congress	19-24 September 2016	Strasbourg, France.	<a href="#">Website</a>
GRC Annual Meeting & GEA Geothermal Energy Expo	23-26 October 2016	California, USA.	<a href="#">Website</a>



EGEC is a non-profit membership organisation whose sole aim is the promotion of the geothermal industry. It supports its members by lobbying on their behalf.

More than 130 members from 28 countries (including private companies, national associations, consultants, research centres, geological surveys, and public authorities) make EGEC a strong and powerful network, uniting and representing the entire sector.