

GLOBAL GEOTHERMAL ENERGY SUMMIT 2018

Key Topics

- Legal & Regulatory Framework for Geothermal Development
 - Developments with Geothermal District Heating
 - Risk Mitigation Strategies for Geothermal Development
 - Focus on the Host Nation – The Netherlands
 - Key Updates on Horizon 2020 Geothermal Energy Projects
- Generating additional Revenue Streams from Geothermal Projects with Cascaded Utilisation
 - Project Updates: New Projects in Progress and Recently Completed
 - Integration of Geothermal Energy and Other Renewable Recourses
 - Advancements with Drilling Technology
 - Key Considerations when Deciding on Geothermal Projects
 - Partnerships with the Oil, Gas & Utility Industries
 - Deployment of Low- & Medium-Temperature Hydrothermal Resources
 - Case Studies: Long Term Established Geothermal Sties

Sponsored by:



Amsterdam, Netherlands

This year the Dutch government will invest €300 million in a series of measures aimed at reducing emissions of carbon dioxide (CO₂) in the Netherlands. Projects will involve disconnecting existing residential neighbourhoods from the natural gas grid, using geothermal heat and reducing carbon emissions in agriculture and industry. The government is taking these CO₂ reduction measures in anticipation of a new national climate and energy agreement.

Following the success from last year, ACI's 6th Global Geothermal Energy Summit will return to Amsterdam, Netherlands. With The Dutch governments ambitious plans to have all residential buildings to be off gas in 2050, geothermal energy has an important part to play in this transition. The conference will give the latest updates on the global geothermal energy market and its new developments. Showcasing new techniques and technologies that are paving the way for the sector and expanding the geographical regions where exploration can take place.

With Geothermal energy production being one of the lowest forms of CO₂ producing energy sources, its development and worldwide deployment is vital in the reduction in worldwide targets for CO₂ reduction. The two day event will provide key insights into the opportunities, challenges, global trends and policies, through expert led case study presentations, interactive sessions and discussions giving practical examples of planning, financing and technological strategies shaping the future of geothermal energy production whilst networking with industry peers from across the geothermal power value chain.

Who will attend?

Senior representatives from national utility companies, technology developers and providers, geothermal project developers, energy regulators and industry analysts, legal companies, energy investors, research organisations, consultants, power production plants and drilling and exploration companies

Past Attendees

ÉS Géothermie * Platform Geothermie * Storengy * CGG Services SAS * GeoThermal Engineering GmbH * National Renewable Energy Laboratory (NREL) * ECW Network * European Investment Bank * RISE Research Institutes Of Sweden * Fangmann Energy Services GmbH * PanTerra GeoConsultants B. V. * Akiet Downhole Composite Tubulars * Strada Energy * IPS Renewables * ENGIE Services Nederland NV * ING Bank N.V. * Shell Global Solutions International BV * TNO * EBN * ECM Technologies * Drax Group Plc * HYDRECO GeoMEC BV * Saudi Aramco / PSP&E Energy * Merichem Company * Iteco Renewables * Linde-KCA-Dresden GmbH * Vattenfall A/S * HVC Group * Ministry For Foreign Affairs Iceland * Acciona Energia * Nordural * SEE Lcd * OCAS NV * S&L Consulting SA * Schlumberger Petroleum Services C.V * Iceland Drilling * DnB NOR Bank ASA * Samorka - Icelandic Energy & Utilities * University Of Massachusetts * Geothermie-Zentrum * Reboot & Associate LTD * Baker Hughes * Borfelag Islands * Mitsui & Co. Deutschland GmbH * Orka Energy * Cluff Geothermal Ltd. * KPMG Iceland * Honeywell Aerospace * SWECO * Siemens Industrial Turbomachinery AB * Cluff Geothermal Ltd. * Mannvit - Iceland * Landsvirkjun Power * Caldera Energy Arion * BankAlcoa * Iceland Landsbankinn HF * RAE * GDF SUEZ Energy International * (CanGea) Canadian Geothermal Association * GT Energy * Islandsbanki * EnBW Energie * Green Energy Group AS * ON (Our Nature) * ST1 Deep Heat Ltd * VITO * Enel * And many more...

Host City of Amsterdam



Registration Is Simple

If you would like to register for this event or wish to find out more information, please contact Rafael Krupa on:



+48 (0) 616 467 040



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<http://www.acieu.net>



ACI Europe, 10 Gough Square, London, EC4A 3DE, UK

Speaking Opportunities

If you would like to be considered as a speaker for the event with a 30 - 45 minute presentation, please submit an abstract for consideration to:

Daniel Laverty

Tel: +44 (0) 20 3141 0612

Email: dlaverty@acieu.net



DAY 1

Wednesday 21st November 2018

08:00 **REGISTRATION & COFFEE**

09:00 **CHAIRMAN'S OPENING REMARKS**

SESSION ONE

Legal & Regulatory Framework for Geothermal Development

09:10 **Dutch Geothermal Energy: The Masterplan & Beyond**

- Present situation
- Geothermal energy in the Dutch 'Climate agreement'
- Ambitions in the Geothermal Masterplan
- The road to realisation



Frank Schoof
Chairman
Platform Geothermie

09:40 **Dutch State Participation in Geothermal Projects**

- From Then to Now: DSM to EBN - Dutch State participation in extractive industries / The Mining Act - the enabling legislation as it stands
- EBN Today: EBN's role(s) - a privileged non-operator / Agmt of Co-operation - interaction with joint operating agreements / Projects with EBN - benefits and challenges
- Dutch Geothermal Projects: Low enthalpy - unusual players & venture set-ups today / Ultra Deep Green Deal - cooperation and State participation
- Way Ahead: Political mood music - announcements and time-lines



Karin Weisenborn
Partner
Weisenborn-Linskaill & Associates



Chris Linskaill
Partner
Weisenborn-Linskaill & Associates

10:20 **Panel Q&A**

10:35 **MORNING REFRESHMENTS**

11:05 **PANEL DISCUSSION**

Focus on the Host Nation – The Netherlands

- Geothermals role in national climate & energy agreement target
- Utilising geothermal heat for homes & greenhouses
- Key Lessons to be learned & deployed elsewhere



Frank Schoof
Chairman
Platform Geothermie



Saskia Hagedoorn
Director
Hydreco GeoMEC



Jan Brandts
Engie Services
Nederland NV

11:50 **CONFERENCE PRESENTATION**

Demonstration Project: LEAN, Utrecht - Low Cost Exploration & De-Risking of Geothermal Plays in White Spot Areas

- The problem of developing geothermal energy in white spot areas (for which limited subsurface information is available): High costs in exchange for a low probability of success -> low bankability
- Project LEAN aims to demonstrate three innovations to develop geothermal in such regions in a more cost effective way, at lower financial risk:
 - Significant cost savings of at least 1 M€ on drilling and completion based on innovative Slimhole drilling with open hole completion at 6' inch diameter
 - Demonstration of an innovative seismic reprocessing method for existing seismic data and a complementary seismic campaign including a passive seismic acquisition. LEAN's aim is to demonstrate this step can effectively reduce pre-drill exploration costs by 0.2 M€
 - Quantitative portfolio approach in which the prognosed NPV of the first project is taking into account the Value of Information (Vol) for the follow-up projects. To this end, the first slimhole is marked by an extensive logging and coring program and DTS/DAS logging to retrieve information for subsequent projects. LEAN aims to demonstrate that the Vol of the 5 follow-up projects contributes significantly to the business case of the first doublet, enhancing its NPV with an order of 1 M€

- LEAN is demonstrated through developing the Rotliegend reservoir in Utrecht aiming at an increase of the probability of success for geothermal energy projects from a medium success rate (30%-70%) to a high success rate (>90%). The investments are shared among public and private partners to leverage the risk



Jan Brandts
Project Developer,
Sustainable Energy
Engie Services

12:35 **LUNCH**

SESSION TWO

Key Considerations When Deciding on Geothermal Projects

13:35 **Risk Management Approach for Geothermal Project Development**

- How to evaluate the performance of different geothermal projects according to:
 - Technological challenges
 - Environmental constraints
 - Economic sustainability
 - Regulatory framework
- How to assess, mitigate and manage the risks associated to development and operation of the geothermal project
- How to involve local stakeholder in project development in order to obtain the social acceptance



Fausto Batini
CEO
Magma Energy

14:05 **Geothermal Production in Italy: An Example of Sustainability**

- Geothermal Production in Italy: state of art
- Continuous production growth & capability in reservoir cultivation
- Integrated structure for all process in geothermal activities
- Sustainability & share value with stakeholders
- District Heating and how to support productive activities
- Spirulina Algae: an innovative production
- Focus on CO2 production in geothermal areas

Marco Paci
Head of laboratories – Geothermal &
Biomass Italy O&M
Enel Green Power

14:35

Good Practices to Support Decision-Making in Geothermal Project Development

- Conduct realistic initial assessment of the project and business case
- Take a staged & disciplined approach to project progress assessment and gate investment decisions
- Benchmark and prioritise project risks & associated proactive & reactive mitigation actions



Rikardur Rikardsson
Managing Director
Landsvirkjun Power

15:05

Panel Q&A

15:25

AFTERNOON REFRESHMENTS

15:55

CONFERENCE PRESENTATION

The Challenges of Geothermal Energy in the Urban Environment - Haagse Aardwarmte Leyweg

- What is the project about
- Who are the shareholders and what are their goals
- When was it realized
- Project economics
- Partners & stakeholder involvement
- What did we do so far
- What are the challenges of geothermal projects in an urban environment
- Follow-up projects in the region of The Hague



Saskia Hagedoorn
Director
Hydreco GeoMEC

16:40

CONFERENCE PRESENTATION

The Role of Insurance in Resource Development

- Key risks associated with geothermal resource development
- De-risking resource development with insurance
- Using insurance to secure investment
- The GeoFuture Risk Mitigation Facility



Julian Richardson
Founder
Parhelion

17:25

CLOSE OF DAY ONE

DAY 2

Thursday 22nd November 2018

08:30 **REGISTRATION & COFFEE**

09:00 **CHAIRMAN'S OPENING REMARKS**

CONFERENCE PRESENTATION

09:10 **Boosting Low Temperature Geothermal Heat & Power**

- Reaping the benefits of Geothermal Energy
- What will cause the market breakthrough for Geothermal Energy
- How to overcoming the high risk in Geothermal Energy



Bodo von Düring
CEO
CloZEd Loop Energy AG



Lorenz Ueing
Business Developer
CloZEd Loop Energy AG

CONFERENCE PRESENTATION

09:55 **Case Studies and Latest Updates on EnBW's Activities in the Geothermal Sector**

- Developments with Advanced Drilling Technologies (Slimhole Drilling)
- Status report on second well in Turkey and Bruchsal



Thomas Kölbl
Group Expert
EnBW

10:40 **MORNING REFRESHMENTS**

CONFERENCE PRESENTATION

11:20 **Reduced Downtime from Long Life Pressure Relief Devices**

- Pressure and pressure relief in Geothermal applications
- Protection of Safety Valves in corrosive environments
- Advanced technology for long life pressure relief



Claire Lloyd
Business Development Europe
Rembe Safety + Control GmbH

CONFERENCE PRESENTATION

12:05 **Geothermal Drilling Campaigns the Key to Reduce Cost & Risk**

- Transformation of first geothermal projects to current status
- Case studies: Drilling campaigns key to reduce costs
- Innovative technologies for future geothermal wells



Bob Harskamp
Business Development Manager
Well Engineering Partners (WEP)

12:50 **LUNCH**

CONFERENCE PRESENTATION

13:50 **Geothermal Energy Production in Turkey - Development, Utilisation & Outlook**

- Geothermal potential of Turkey
- Development of geothermal power production and outlook
- Applications in power production, direct use as well as regional opportunities for geothermal based heating
- Opportunities for activities, services and business development in the geothermal market
- Chances for investments in geothermal projects



Rolf Schiffer
Owner
Schiffer Consult GEO Services

CONFERENCE PRESENTATION

14:25 **How Different Oil-Gas & Geothermal Wells Cementing?**

- An oilfield experience application in the geothermal drilling
- Differences between cementing of low & high enthalpy geothermal wells
- Key cost-controlling factors for cementing a geothermal well
- Do's & Don'ts when thinking about cementing of geothermal well



Yashar Yadigarov
Director
Deutecs GmbH

CONFERENCE PRESENTATION

15:00 **Geothermal Energy Production in Slovakia**



Allen Davis
Managing Director & CEO
Starlight Investments

15:30 **CHAIRMAN'S CLOSING REMARKS**

15:40 **END OF CONFERENCE & AFTERNOON REFRESHMENTS**


6th Global Geothermal Energy Summit 2018

Amsterdam, The Netherlands

21st - 22nd
November
2018


Registration Is Simple

If you would like to register for this event or wish to find out more information, you can contact **Rafael Krupa** using any of the following methods:

 +48 (0) 616 467 040

 rafael@acieu.net

 <http://www.acieu.net>

 **Postal Address:**
10 Gough Square, London, EC4A 3DE, UK

Registration Is Simple

Conference (Includes Access to All Documentation)
29th & 30th November 2017

£1,595.00

Documentation Packet Only

£470.00

Please Note.

Members and customers of all supporting organisations are entitled to a discount off their conference package.

For more information please call +48 (0) 616 467 040

Documentation Packet Available

We are selling the 6th Global Geothermal Energy Summit papers at just £430 (+£40 P&P). Simply tick the box on the booking form, send it with payment and your copy will be on its way to you after the meeting. This important manual will be a source of invaluable reference for the future.

About ACI

ACI, a UK owned company, has been running successful conferences in the USA since 1999. Headquartered in Chicago with offices all around the States, ACI opened its European head office at the end of 2005 and has expanded rapidly, launching a series of events in key industries including maritime, energy, oil & gas, cosmetics, chemicals & media.

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