

ANNUAL REPORT 2018





WELCOME TO THE WORLD OF GEOTHERMAL

International Geothermal Association

We are a global geothermal organization uniting the geothermal sector around the globe. We represent countries, industry and academy at the international level. By working with the United Nations, World Bank, IRENA and other partners we have a mandate to influence the political agenda and shape the future of geothermal energy

WHY WE #LOVE GEOTHERMAL

We believe that geothermal represents an **unlimited natural source of energy**, which can play a significant role in meeting the world's energy needs of the future

It is a renewable source that provides clean energy for a unique combination of purposes: **power, heating and cooling, and direct uses**

Geothermal is also unique in its ability to create **additional revenue** by offering multiple uses of the geothermal by-products such as **health & beauty products** and **attract tourism**

We are convinced that geothermal can serve as a **bridge towards a green and sustainable future**, supporting the transition from a fossil-fuel to a **renewable-based economy**



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ALEXANDER RICHTER

MESSAGE FROM THE PRESIDENT

2018 was an exciting year for the IGA: celebrating our 30th anniversary and the Board deciding to act on its strategic initiatives: changing the frequency of the World Geothermal Congress from 5 to 3 years, adopting new bylaws, setting a code of conduct and deciding on an independent operating structure are just a few highlights of the new IGA. As President of the IGA I am extremely proud on what my Board and the Operational Team have achieved and I look forward to seeing a successful 2019-2020 period ahead.

A handwritten signature in blue ink, reading "A. Richter".



MARIT BROMMER

MESSAGE FROM THE EXECUTIVE

The changes within the IGA have led to a stronger, more resourceful and independent operational organization. The year 2018 was at times challenging yet always rewarding. We created a fantastic team together that is committed to operate the Association successfully thereby contributing to advocate for the further roll out of geothermal energy for a cleaner and greener world.

A handwritten signature in blue ink, appearing to be "MB".



HIGHLIGHTS OF THE YEAR 2018

Meeting the President of Iceland

Creating independence

Celebrating 30 years of existence

Deploying UNFC Geothermal specifications in Indonesia, Caribbean
and Ethiopia

WE HAVE MOVED TO BONN!

We are happy to announce that from January 2019 the HQ of the International Geothermal Association is located in Bonn.

NEW ADDRESS

Charles-de-Gaulle-Str. 5
53113 Bonn
Germany



INTERNATIONAL GEOTHERMAL ASSOCIATION

#lovegeothermal

Increase in Social Outreach

We have managed to secure more engagement from our members via various social platforms. Social media presence is vital for us and by introducing different campaigns such as 'BoD Member of the Month' we are increasing the involvement of our membership.

Stay tuned with [#lovegeothermal](#):



New Website

Visibility, digital presence, look and feel of the IGA has changed. Up-to-date information about upcoming geothermal events, recent news and publications can be found on our brand new website. In 2019 we aim to secure access to geothermal information through our technical databases.



Celebrating our 30th Birthday!

At Hellisheiði power plant, Reykjavik, we celebrated IGA's 30th Birthday. The event was kindly sponsored by [Reykjavik Energy](#), [HS Orka](#) and [Landsvirkjun](#). It was a fantastic party and a clear demonstration of Icelandic commitment to geothermal.





Geothermal energy promotion during COP24 Katowice, Poland, 3-14 December 2018

During COP24 in Katowice, geothermal energy was discussed during four side events:

Geothermal Energy Development in East Africa – a panel discussion organised by the African Union on success and challenges of geothermal development in Africa, showcasing its success with the Geothermal Risk Mitigation Facility scheme. Among high-level panelists was Alexander Richter, IGA president.

Towards 100 RES in 2050 – REN Alliance side event. IGA was represented in that panel by Beata Kępińska, IGA BoD member and President of the Polish Geothermal Society.

Geothermal Energy in Poland – panel session organized by the Polish Geothermal Society. It focused on perspectives of low-emission heating for climate mitigation and sustainable development.

Innovative solutions for the climate in Poland – this session concentrated on geothermal district heating in the Podhale Region, Poland.



Meet our Community

30 Affiliated Organizations

4.200 Individual Members

We have **gained benefits for our members** when we secured the deal with the Journal 'Geothermics' and we are **improving our database experience** to be the knowledge broker to our membership.

We look after **deep geothermal** for power production, work with many partners on **renewable heating and cooling** and are willing to discuss with **global political leaders** the potential of geothermal energy.

We have strong representation from the **corporate environment** and we are keen to secure more corporate membership by introducing **new corporate initiatives** in 2019. We also observe a genuine interest from the traditional **Oil and Gas industry** to join the Geothermal Community, and together we hope to drive the geothermal value proposition on the energy agenda for the future.





National Geothermal Association of the Philippines

The Philippine geothermal industry continues to provide reliable baseload power to the Philippine grid, contributing around 14% to the country's power requirement. Under the RE Law passed in 2008, new geothermal development is considered a mature technology. For this reason, it does not receive the same incentives as the other RE sources like wind, solar, and hydro.

The National Geothermal Association of the Philippines (NGAP) has been advocating to the Department of Energy to consider other incentives to advance geothermal energy exploration and development in the country.



Member Testimonials



New Zealand Geothermal Association

New Zealand continued adding geothermal capacity during 2018. 'Eastland Energy' commissioned the 25 MWe Te Ahi O Maui binary plant at Kawerau Field. 'Top Energy' completed development drilling on its 31 MW Ngawha C binary development and has advanced to power plant construction. Construction also began on the Maori-owned Kawerau Dairy Plant that will utilise geothermal energy from Ngati Tuwharetoa Geothermal Assets for process heat.



Member Testimonials

Unione Geotermica Italiana

Thanks to its abundance especially in the central regions, in Italy geothermal energy has been employed for direct uses since ancient times and for electricity production since early XX century. Italy is one of the main electricity and heat producer from geothermal energy in Europe, but the development is rather stagnant, due to various difficulties such as long and unpredictable times for authorization permits and volatile electricity tariffs.

Geothermal energy is still largely untapped despite its large potential. Since one of the core problems is the incomplete and sometimes misleading information, UGI continues its activity of promotion and dissemination of reliable and updated geothermal data.



of North Macedonia
Georgian Geothermal Association
Geothermal Association of Ireland
Hungarian Thermal Energy Society
Peruvian

Geothermal Association
Serbian Geothermal Association



Australian Geothermal Association



CanGEA
CANADIAN GEOTHERMAL ENERGY ASSOCIATION



GEOTHERMAL CANADA



ACHEGEO
CHILE POTENCIA GEOTÉRMICA



Society of Japan The Geothermal Research



GAK
Geothermal Association of Kenya



Lietuvos Geotermijos Asociacija



AGM
ASOCIACION GEOTERMICA MEXICANA



AQEOL
ASOCIACIÓN GEOTÉRMICA COLOMBIANA



afpg



Bundesverband Geothermie



MGtE



Platform Geothermie



nzga
New Zealand Geothermal Association



National Geothermal Association of the Philippines



PGE
POLSKIE STOWARZYSZENIE GEOTERMICZNE
POLISH GEOTHERMAL SOCIETY



Geotermias Íslands



INDONESIAN GEOTHERMAL ASSOCIATION
INAGA



Iranian Geothermal Energy Association
IGEA
انجمن انرژی زمین گرمایی ایران



UNIONE GEOTERMICA ITALIANA



Peruvian Geothermal Association



GEOTHERMIE SCHWEIZ
GEOTHERMIE SUISSE
GEOTERMIA SVIZZERA



Geothermal Resources Council
GRC

OUR AFFILIATED ORGANIZATIONS

BECOME A MEMBER NOW!

[Click here](#)





OUR INITIATIVES & STRATEGIES

We focus on **technology transfer** (Oil - Gas - Geothermal)

We focus on **Capacity Building and Educational Initiatives**

We focus on **the UNFC Geothermal Specifications**

We focus on **small Island Development States**

We focus on **Geothermal Sustainability Assessment Protocol**

The UNFC pilot project seeks to deploy the UNFC geothermal classification method across the globe. For this we have worked intensively with the United Nations Economic Commission for Europe, the World Bank ESMAP programme and IRENA. We are grateful for all their support and we are keen to follow up with a second stage programme in 2019-2020.

UNFC Geothermal Specifications



Technology Transfer

Cross over aspects between Geothermal and Oil and Gas is vital. Lessons learned, best practices, getting the appetite to drive down costs [drilling and production] and to create demand for direct use of low enthalpy geothermal energy from sedimentary basins are the starting points for initiatives in this joined community.



Small Island Development States

The IGA is a strong supporter of IRENA's Lighthouse initiative on Small Island Developing States. Recent IGA work in the Caribbean, the Azores and Canary Islands demonstrates how geothermal with its limited land use and resilient infrastructure is a valuable technology for energy independence.

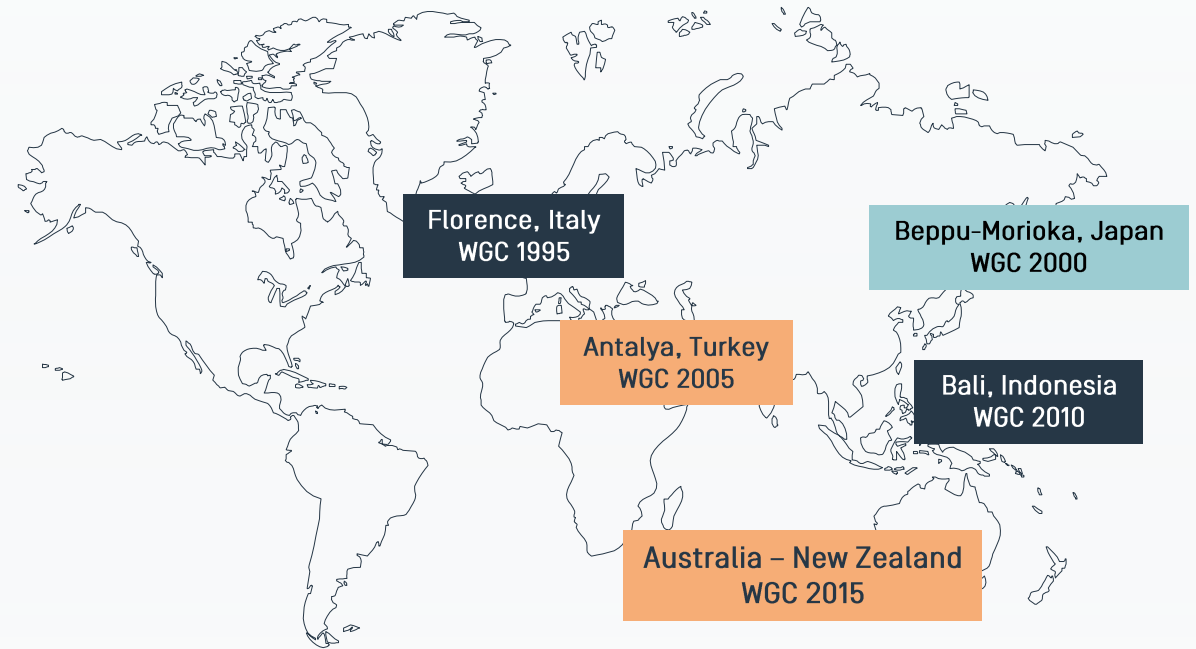


OUR JOURNEY & OUTLOOK

We continue our **journey to independence** by creating a **financial sustainable operational structure**. We aim to push geothermal on the global agenda and we will see exciting things happening in 2019 with our **elections for the board term 2020-2023** and **tendering for WGC2023**.

OUR JOURNEY | OUR FLAGSHIP

World Geothermal Congress is the main geothermal event for the Global Geothermal Community. We are looking forward to seeing you at the WGC 2020 in Reykjavik, Iceland in April 2020.



**WORLD
GEOTHERMAL
CONGRESS
2020 REYKJAVIK**

The World Geothermal Congress is the most awaited event for the Geothermal Community. In 2018 the IGA Board of Directors stepped forward with the strategic initiative to change the WGC frequency from 5 to 3 years.

The call for the WGC 2023 ends at the end of April 2019. The WGC 2023 host will be announced later same year.

OUTLOOK FOR 2019



Embracing Change

The energy transition is happening now. Geothermal needs to step up its game and become an influencer and disruptor at the same time. New energy coalitions are forming and geothermal energy should be a part of that coalition. Our industry needs to embrace change, form the right alliances and implement geothermal energy at global scale. This calls for strong and diverse leadership in politics, industry and academia.

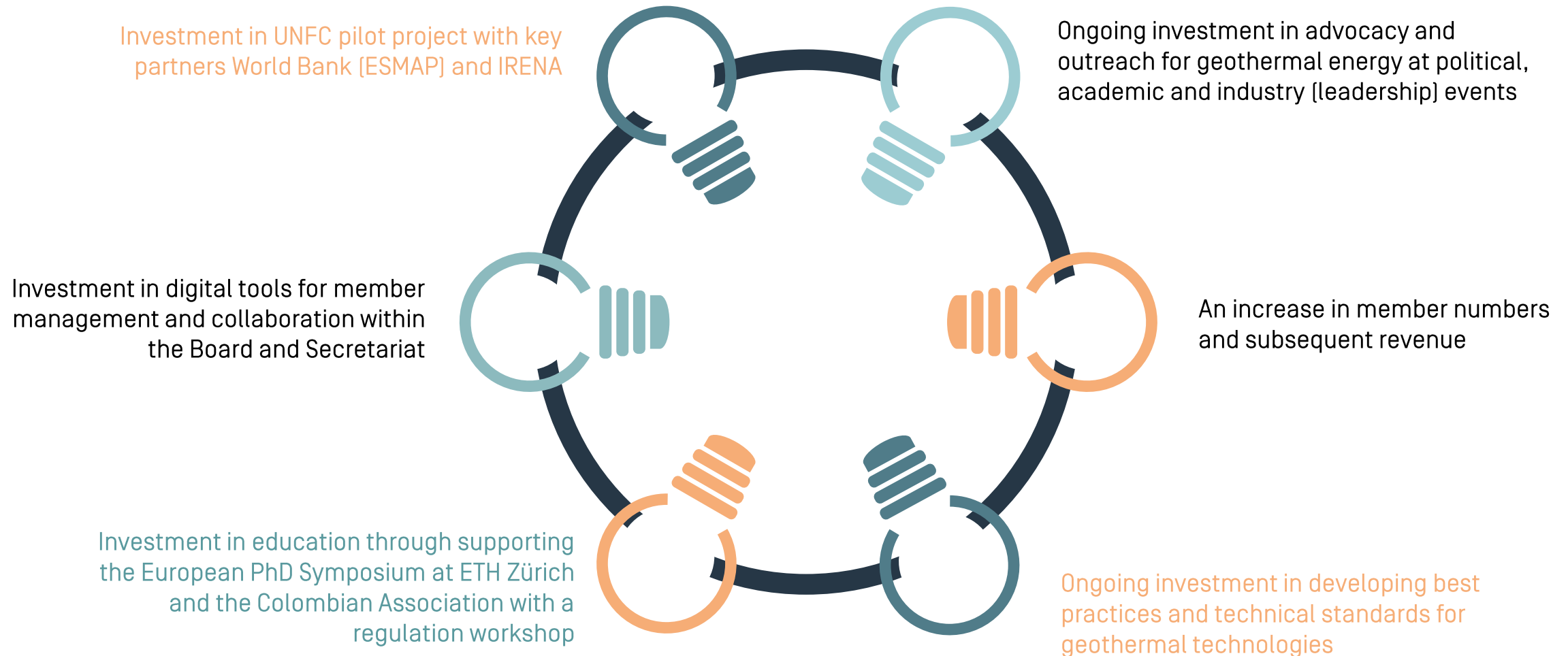
The IGA is more than ever ready for this journey. Through our mandate to shape the energy agenda we are ensuring visibility, building strong partnerships and spreading [#lovegeothermal](#).



FINANCIAL OVERVIEW

We had a **financially balanced year** where our income was used to **invest in key initiatives** that created **value for our membership** and for the geothermal sector as a whole.

Financial Overview





ACKNOWLEDGMENTS

OUR STRONGEST PARTNERS



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About International Geothermal Association

The IGA aims at being the leading world authority in matters concerning the research and development of geothermal energy by setting educational standards and offering worldwide energy solutions and in-house technical support, with special support for countries in early stages of geothermal development.

We connect the Global Geothermal Community, serving as a platform for networking opportunities aimed at promoting and supporting global geothermal development. We embody a wide variety of members ranging from academy to industry representatives.

Website: www.lovegeothermal.org



