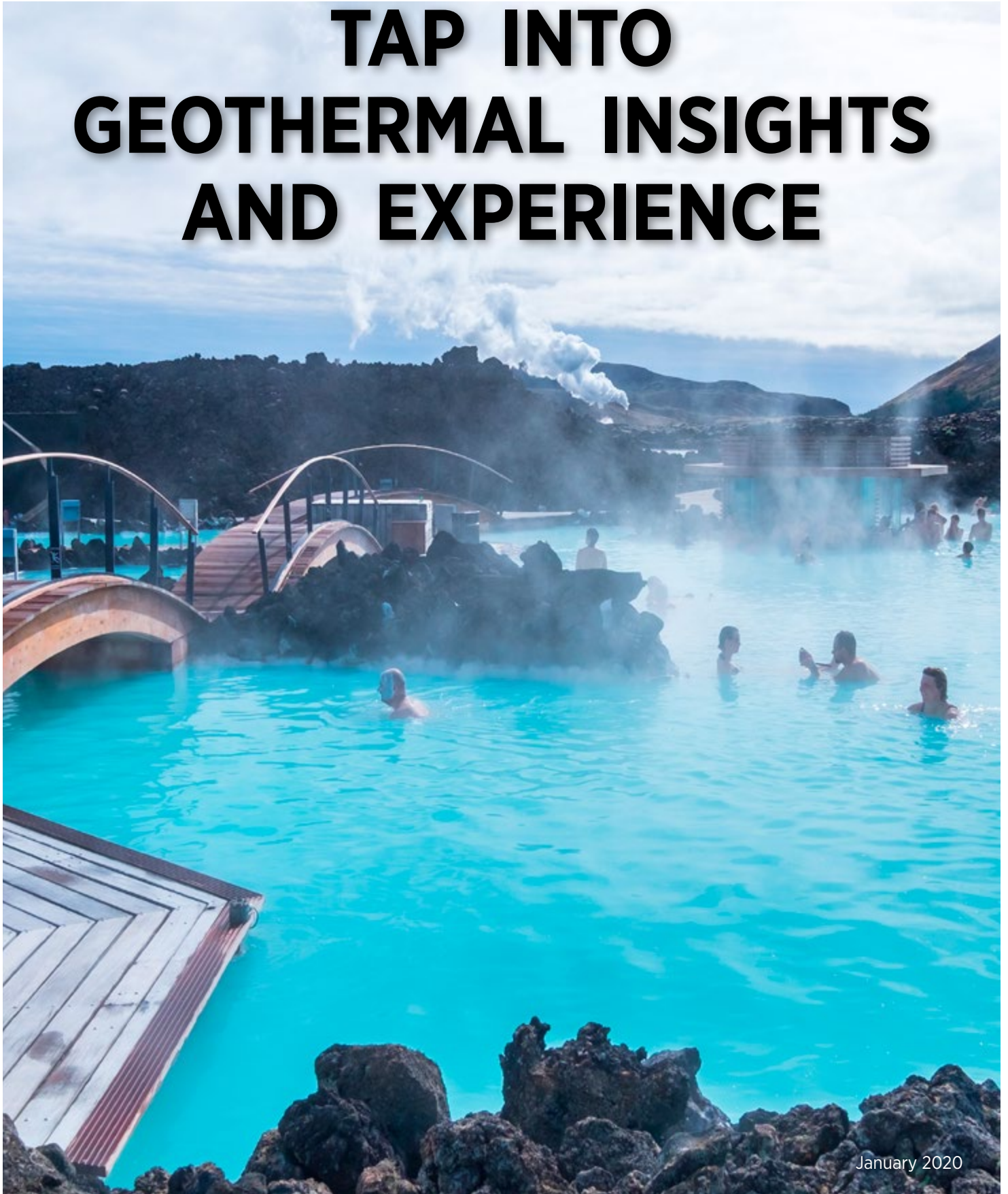


GLOBAL GEOTHERMAL ALLIANCE

Co-ordinated by



# TAP INTO GEOTHERMAL INSIGHTS AND EXPERIENCE



January 2020

# The Alliance aims to foster an enabling environment to attract investments in geothermal power generation and direct use of geothermal heat

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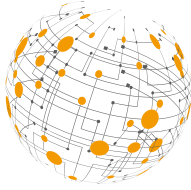
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## GLOBAL GEOTHERMAL ALLIANCE

**The Global Geothermal Alliance (GGA) serves as a platform for dialogue, co-operation and co-ordinated action between the geothermal industry, policy makers and stakeholders worldwide.<sup>1</sup>**

Launched at COP21,<sup>2</sup> the GGA is a coalition for action to increase the use of geothermal energy, both in power generation and direct use of heat. It calls on governments, business and other stakeholders to support the deployment of realisable geothermal potential.

The Alliance has an aspirational goal to achieve a five-fold growth in the installed capacity for geothermal power generation and more than two-fold growth in geothermal heating by 2030.<sup>3</sup>



<sup>1</sup> Objectives and principles of the Alliance are stipulated in the Joint Communiqué on the Global Geothermal Alliance, available at [www.GlobalGeothermalAlliance.org](http://www.GlobalGeothermalAlliance.org)

<sup>2</sup> The 21st Conference of the Parties to the United Nations Framework Convention on Climate Change (UNFCCC), held in Paris, France, in December 2015.

<sup>3</sup> Based on REmap analysis – a global roadmap to double the share of renewables in the energy mix.

## What the Alliance does

The GGA aims to foster an enabling environment to attract investments in geothermal power generation and direct use of geothermal heat. The Alliance provides customised support to regions and countries with geothermal market potential and facilitates the exchange of insights and experience among key stakeholders in the geothermal energy value chain. It will identify and promote models for sharing and mitigating risks, in order to attract private investment and integrate geothermal facilities into energy markets. It will help to streamline outreach efforts to give geothermal energy greater visibility in the global energy and climate debates.

## Members

Argentina, Bolivia, Burundi, Chile, Colombia, Comoros, Costa Rica, Djibouti, Ecuador, Egypt, El Salvador, Ethiopia, Fiji, France, Germany, Guatemala, Honduras, Iceland, India, Indonesia, Italy, Japan, Kenya, Kingdom of the Netherlands, Malaysia, Mexico, Nicaragua, New Zealand, Pakistan, Papua New Guinea, Peru, Philippines, Poland, Portugal, Romania, Saint Vincent & the Grenadines, Switzerland, Solomon Islands, Tonga, Turkey, Uganda, United Republic of Tanzania, United States of America, Vanuatu, Zambia, Zimbabwe.



## Partners

African Development Bank, African Union Commission, AGH University of Science and Technology (Poland), Andean Geothermal Center of Excellence (Chile), Asian Infrastructure Investment Bank (AIIB), Association GeoEnergy Celle e.V. (Germany), Canadian Geothermal Energy Association, Caribbean Electric Utility Services Corporation (CARILEC), Centro Mexicano de Innovación en Energía Geotérmica (CeMIEGeo), Chinese Renewable Energy Industries Association (CREIA), Eastern African Power Pool, Energy Institute Hrvoje Požar (Croatia), European Geothermal Energy Council, Geothermal Canada, GEODEEP – Geothermal Cluster for Heat and Power (France), Geothermal Resources Council (USA), Geothermal Power Plants Investors Association (Turkey), Iceland GeoSurvey, Iceland Geothermal Cluster Initiative, Inter-American Development Bank, International Geothermal Association, International Renewable Energy Agency, Islamic Development Bank, Macedonian Geothermal Association, National Energy Authority (Iceland), New Partnership for Africa's Development, Nordic Development Fund, Organization of American States, Organisation of Eastern Caribbean States, Regional Center for Renewable Energy and Energy Efficiency, Serbian Geological Society, Southern Africa Power Pool, Pacific Community, United Nations Environment Programme (UN Environment), United Nations Industrial Development Organization (UNIDO), United Nations University – Geothermal Training Programme (UNU-GTP), United States Energy Association (USA), University of Geneva, World Bank.

\* GGA Members and Partners as of December 2019

**The Alliance is an inclusive and neutral multi-stakeholder platform that brings together public, private, intergovernmental and non-governmental actors**



**Drilling operations in Saint Vincent and the Grenadines**

# GGA ACTION PLAN

**Based on the principles stipulated in the GGA Joint Communiqué at the launch in Paris, the GGA Action Plan was endorsed by Members and Partners in May 2016.**

The Action Plan identifies focus areas for GGA action and the modalities for implementation and funding. The Alliance will co-ordinate closely with existing structures, programmes and facilities that share the common objective of promoting geothermal energy deployment at the international, regional and national levels. It will operate based on activities linked to the Action Plan, supported in implementation and funding by committed Members and Partners.

## Priority Action Areas

- **Action 1 – Resource and Market Assessment:** Identification and mapping of geothermal resources for development, as well as existing and potential geothermal market status and near terms projects in the pipeline.
- **Action 2 – Needs and Obstacles Assessment:** Scoping of the needs for assistance to countries with transformative potential in removing obstacles of policy, regulatory, funding or capacity building nature.
- **Action 3 – Enabling Frameworks:** Supporting the development of effective enabling policy, regulatory and institutional frameworks and relevant legal, fiscal and capacity building activities to achieve national objectives for geothermal energy deployment; facilitating access to and proposing improvements on financing and risk mitigation instruments.
- **Action 4 – Global Geothermal Network:** Establishing and improving a robust global network of geothermal energy experts building upon existing networks; promoting geothermal energy's role in supporting decarbonisation strategies and the implementation of national climate plans.

## Who can join?

The GGA is an inclusive and neutral multi-stakeholder platform that brings together public, private, intergovernmental and non-governmental actors that share a common vision of accelerating the deployment of geothermal energy for power generation and other applications.

Member countries include those with resource potential that are established or emerging as geothermal markets, along with other countries that wish to support the activities of the Alliance.

Partner institutions include:

- Development partners, international and bilateral development organisations, international financial institutions, institutional investors, international organisations, and other geothermal energy development partners.
- Geothermal industry represented by geothermal business associations at the global, regional and national levels.
- Research and development (R&D) and academic organisations operating in the field of geothermal energy at the regional, national or subnational level.

## Collaboration to improve enabling frameworks for geothermal development

The International Geothermal Association (IGA), the World Bank's Energy Sector Management Assistance Programme (ESMAP) and IRENA have teamed up under the umbrella of the Global Geothermal Alliance. The partnership aims to train stakeholders on, and pilot the application of, the United Nations Framework Classification for Fossil Energy and Mineral Reserves and Resources 2009 (UNFC-2009) for Geothermal Energy Resources. This framework classification was endorsed by the UNECE (United Nations Economic Commission for Europe) Committee on Sustainable Energy at a September 2016 session in Geneva.

The objective of the project is to promote a standardised methodology that ensures uniformity with specifications applicable to other resources, thereby improving the way information on geothermal resources is communicated to investors, regulators, governments and other stakeholders.



Courtesy of the Organization of Eastern Caribbean States

Through this collaborative effort, partners introduced the guidelines to more than 100 high-level and technical stakeholders from Ethiopia, Indonesia and a cluster of Eastern Caribbean islands, thereby creating a network of early adopters and significant local interest. Local stakeholders expressed their intention to make use of the specifications in geothermal projects.

## BECOMING A MEMBER OR PARTNER

**In line with the inclusive and neutral nature of the GGA, applying for membership or partnership is straightforward. Requests by interested countries and institutions should be sent to the International Renewable Energy Agency (IRENA), the co-ordinator and facilitator of the GGA, by way of an official written request addressed to IRENA's Director-General.**

- For country applications, IRENA confirms membership with the country and informs GGA Members and Partners accordingly.
- For institutional applications, IRENA seeks the consent of GGA Members, as per the GGA Joint Communiqué. Upon approval, IRENA confirms the partnership with the institution and informs GGA Members and Partners accordingly.

Member countries and partner institutions are not required to contribute any membership fee. The costs associated with GGA activities, including co-ordination meetings, shall be borne by participants.

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is a coalition to increase the use of  
geothermal energy, both in power  
generation and direct use of heat**

For more information:

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[www.GlobalGeothermalAlliance.org](http://www.GlobalGeothermalAlliance.org)