

## IEA Geothermal –Participant of the Technology Collaboration Programmes of the International Energy Agency

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### ABSTRACT

Under the auspices of the IEA, the IEA Geothermal group provides an excellent framework for international cooperation sharing the latest technical and policy developments. This Network promotes the sustainable use of geothermal energy worldwide through website, country and statistical reports, workshops, seminars, publications and by personal networking. With high quality information and widely communicating geothermal energy's benefits, IEA Geothermal contributes to the mitigation of climate change and the development of geothermal technology worldwide. Participants of the IEA Geothermal benefit from their engagement by integrating international developments in their market, research and policy strategies.

**Keywords:** International Energy Agency, IEA Geothermal, Collaboration, Network, Geothermal Statistics, Government

### IEA Framework

Since its creation in 1974, the IEA has provided a flexible structure that enables international collaboration in energy technology research and development and deployment. Through these networks IEA Geothermal is one of 10 in the area of renewable energies - experts from governments, industries, businesses, and international and non-governmental organizations from both IEA member and non-member countries unite to address common technology challenges and share the results of their work. IEA Geothermal is acting within the IEA Technology Collaboration Programmes (TCP).

### Working Groups and Tasks

The IEA Geothermal comprises several Working Groups (WG) and subordinated Tasks:

#### WG 1: Environmental Impacts of Geothermal Energy Development

Tasks: Impacts on Natural Features / Discharge and Reinjection Problems/ Methods of Impact Mitigation and Environmental Procedures / Sustainable Utilisation Strategies

WG 8: Direct Use of Geothermal Energy

Tasks: Innovative Geothermal Direct Use Applications / Communication / Guidelines for Geothermal Energy Statistics / Statistics for Geothermal Heat Pump Applications / Design Configuration and Engineering Standards

WG 10: Data Collection and Information

WG 12: Deep Roots of Volcanic Geothermal Systems

Tasks: Compilation of Conceptual Models of the Roots of Volcanic Geothermal Systems and Associated Research Methods / Advancement of Methods for Deep Geothermal Exploration /Methods for Modelling Conditions and Processes in Deep Geothermal Resources

WG 13: Emerging Geothermal Technologies

Tasks: Induced Seismicity / Exploration, Measurements and Logging / Drilling Technology /Surface Technology (Corrosion, Deposits, Scaling) / Geothermal Reservoir Management / Reservoir Creation and Enhancement

**Participation**

The type of membership is regulated in the IEA Framework for International Technology Co-operation. There are two official categories of participation and a guest status:

Contracting Parties

Contracting parties may be governments or their designated organizations, the EU and international organizations. They have full voting rights in the Executive Committee, can apply for chairmanship and participate in at least one annex/ network group. Contracting parties pay a membership fee.

Sponsors

Sponsors may be national entities (e.g. companies, associations), who are not designated by government or non-intergovernmental international entities. They have full voting rights in the Executive Committee and participate in at least one annex/ network group. Sponsors pay a membership fee.

Guest

Guest status is awarded as an informal offer by IEA Geothermal to enable the guest organization a 12 month trial membership. A guest has the opportunity to get a first inside view of the group. Guests can participate actively in the network groups/ annexes and in non-confidential parts of the ExCo-Meetings. They can present their entity to the group and in workshops. No membership fee is requested. After about one year a guest organization is encouraged to progress to full membership. The Executive Committee Secretary can be asked for details and application procedure.

## Participants

Australia: Department of State Development (DSD), State Government of South Australia  
European Commission: DG Research & Innovation, Belgium  
France: Bureau de recherches géologiques et minières (BRGM)  
Germany: Forschungszentrum Jülich GmbH  
Iceland: Orkustofnun  
Italy: ENEL Green Power, Italy  
Japan: Japan Oil, Gas and Metals National Corporation (JOGMEC)  
Republic of Korea: Korea Institute of Geoscience & Mineral Resources (KIGAM)  
Mexico: Centro de Investigación Científica y de Educación Superior de Ensenada (CICESE)  
New Zealand: GNS Science  
Norway: The Research Council of Norway (NFR)  
Switzerland: Swiss Federal Office of Energy SFOE  
United Kingdom: Department of Energy & Climate Change (DECC)  
United States: United States Department of Energy (US DOE)  
Spanish Geothermal Technology Platform (GEOPLAT), Spain  
Ormat Technologies Inc., United States



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