Global Geothermal Alliance

2nd High Level Conference

San Salvador, El Salvador | 29 September - 1 October 2022
Global Geothermal Alliance

Objective

Global Multi-stakeholder Platform to foster geothermal deployment worldwide through enhanced dialogue, cooperation and coordinated action among key geothermal stakeholders

2030 Goals

- 5-fold growth in geothermal power generation
- 3-fold growth in geothermal heat

Action Plan

- Resource and Market Assessment
- Needs and Obstacles Assessment
- Enabling Frameworks
- Networking and Outreach
GGA: 49 Member Countries and 54 Partner Institutions

49 countries and 54 partners

**AMERICAS / CARIBBEAN**
- Argentina
- Bolivia
- Chile
- Colombia
- Costa Rica
- Ecuador
- El Salvador
- Guatemala
- Honduras
- Mexico
- Montserrat
- Nicaragua
- Peru
- Saint Vincent and the Grenadines
- Uruguay
- USA
  - Atlantic Council
  - Canadian Geothermal Association
  - CARILEC
  - CEGA (Chile)
  - CeMIEgeo (Mexico)
  - Chilean Geothermal Council
  - Colombian Geothermal Association
  - Ecuadorian Geothermal Association
  - Geothermal Canada
  - Geothermal Rising (USA)
  - IDB
  - Mexican Geothermal Association
  - OAS
  - OECS
  - Peruvian Renewable Energy Association
  - REDOMEREE
  - US Energy Association

**EUROPE**
- France
- Germany
- Iceland
- Italy
- Netherlands
- Poland
- Portugal
- Romania
- Switzerland
- Turkey
- United Kingdom of Great Britain and Northern Ireland
  - AGH University of Science and Technology
  - Bulgarian Association Geothermal Energy
  - EHP
  - European Geothermal Energy Council
  - GeoDeep (France)
  - GeOenergy Celle e.V. (Germany)
  - Geoscience Ireland
  - Geothermal Energy Advancement Association (UK)
  - Geothermal Power Plants
  - Investors Association (Turkey)
  - GRID
  - Iceland Geothermal Cluster
  - Icelands School of Energy
  - ISOR (Iceland GeoSurvey)
  - Macedonia Geothermal Association
  - National Energy Authority (Iceland)
  - Nordic Development Fund
  - Serbian Geological Society

**AFRICA**
- Burundi
- Comoros
- Djibouti
- Egypt
- Ethiopia
- Kenya
- Tanzania
- Uganda
- Zambia
- Zimbabwe

**GLOBAL**
- AIB
- International Geothermal Association
- IRENA
- Islamic Development Bank
- UNEP
- UNIDO
- Women in Geothermal - WING
- World Bank - ESMAP

**ASIA**
- India
- Indonesia
- Japan
- Malaysia
- Pakistan
- Philippines
  - CREEL (China)
  - CREEL (China)

**PACIFIC / OCEANA**
- Fiji
- New Zealand
- Papua New Guinea
- Solomon Islands
- Tonga
- Vanuatu
  - Australian Geothermal Association
  - Pacific Community

*In orange: Members/partners joining in 2021-22*
Offering a Global Platform for Dialogue and Cooperation

Launch at COP21  
2015

1st High Level Conference  
2017

GGA at IRENA Assembly  
2018

GGA annual meetings

GGA at WGC  
2021
Pioneering A New Approach to Geothermal Resource Assessment

UN Framework Classification for Geothermal Energy
- Promote standardization in classification and reporting geothermal resources

Pilot training on application of UN Framework Classification
- Technical sessions conducted in Indonesia, Ethiopia and the Caribbean Islands
- Co-facilitated by IRENA, IGA and ESMAP
- Produce classification reports and subsurface temperature maps
- Report on lessons learnt
Geothermal Market and Technology Assessments

Geothermal Market Assessment in East Africa
- Provide an updated status of the geothermal market
- Identify bottlenecks and provide recommendations

Enabling Policies and Regulatory Frameworks for Geothermal Energy - East Africa Rift
- Co-hosted with UNEP and African Union Commission
- Insights, experiences and best practices shared btw East African and Mexican counterparts

Global Geothermal Market and Technology Assessment [upcoming]
- Collaboration between IRENA and IGA
- What are the key drivers for geothermal in the coming years?
- Supported by practitioners’ group of geothermal expert
Promoting Geothermal Heat Solutions in District Heating and Cooling

GUIDEBOOK FOR POLICY MAKERS: Integrating Low-Temp Renewables in District Heating and Cooling
- Options and available tools for successful deployment

Thorough consultative process
- Supported by a practitioners’ group of geothermal experts mainly from the GGA constituency

Informing Policy Making
- Western Balkans (Capacity building)
- Belarus (Capacity building)
- China (Capacity building)
- Dialogue with industry
- Mongolia (capacity building and strategic heating plan)
Fostering Geothermal Heat Applications in the Agri-Food Systems

GUIDEBOOK FOR POLICY MAKERS: Powering Agri-food Value Chains with Geothermal Heat
- Key success factors based on best practices
- Priority areas to scale up geothermal deployment

Thorough consultative process
- Supported by a practitioners’ group of geothermal experts mainly from the GGA constituency

Informing Policy Making
- Global webinar
- East Africa workshop
- LATAM workshop
Facilitating RE Projects through IRENA Platforms

Climate Investment Platform (CIP)
- Joint initiative of IRENA, UNDP, and SEforALL in coord with Green Climate Fund (GCF)
- Develop a strong pipeline of bankable RE projects
- Facilitate the financial matchmaking

Energy Transition Acceleration Financing Platform (ETAF)
- Multi-stakeholder climate finance platform which aims to mobilize USD 1 B
- UAE announced USD 400 million anchor funding via ADFD
- Masdar joined as equity investor and TA provider
- Discussion underway with several IFIs to join
GGA Members and Partners Guiding on Strategic Direction and Priorities

**Emerging Thematic Focus**
- Direct use for end-use decarbonization for climate action and sustainable development
- Unlocking and facilitating investments and finance

**Implementation Principles**
- Guide and inform country decision making
- Explore and establish regional emphasis
- Enable stronger “practitioners” engagement to guide GGA work
- Advocate and raise awareness
- Activate strengthened country-industry dialogue
Thank you!