



GLOBAL GEOTHERMAL ALLIANCE



IRENA Activities on Global Geothermal Alliance: A Global Partnership for Geothermal Energy

Nairobi - 10 October 2017

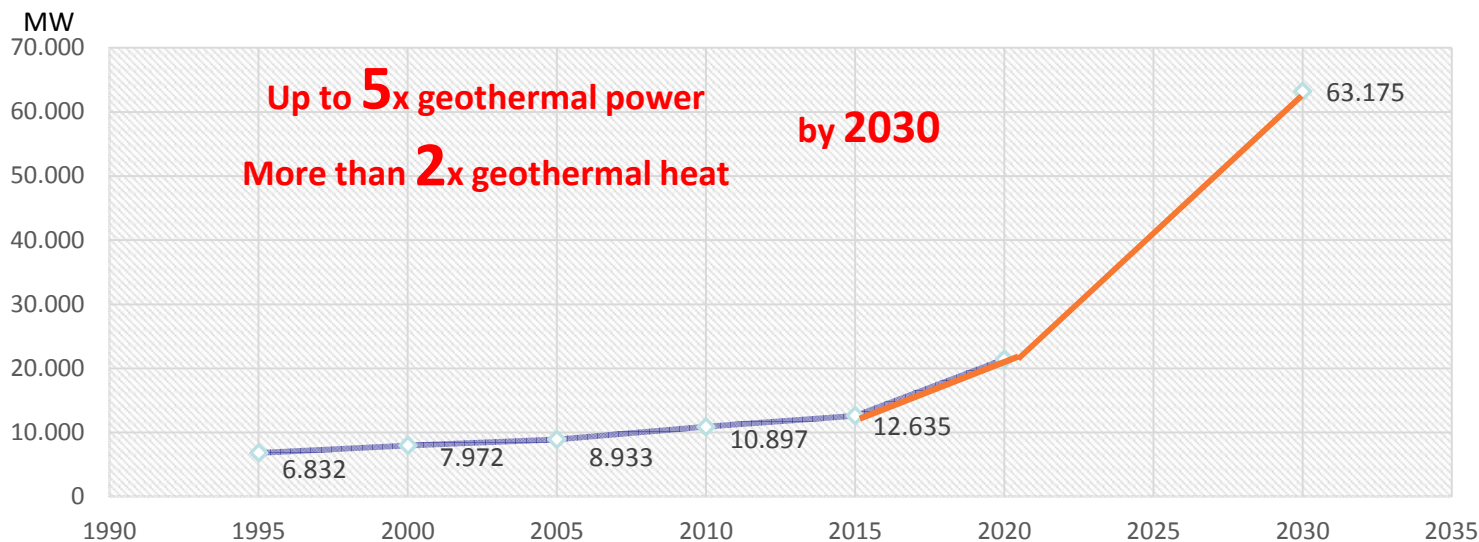
GRMF Workshop

Global Geothermal Alliance

Launched at COP21 in Paris

Global platform for improved dialogue, cooperation and coordinated action among key geothermal stakeholders to scale up geothermal deployment

Geothermal Power Installed Capacity Worldwide



Source: IRENA Remap 2030

A Joint Communiqué issued at the GGA Launch

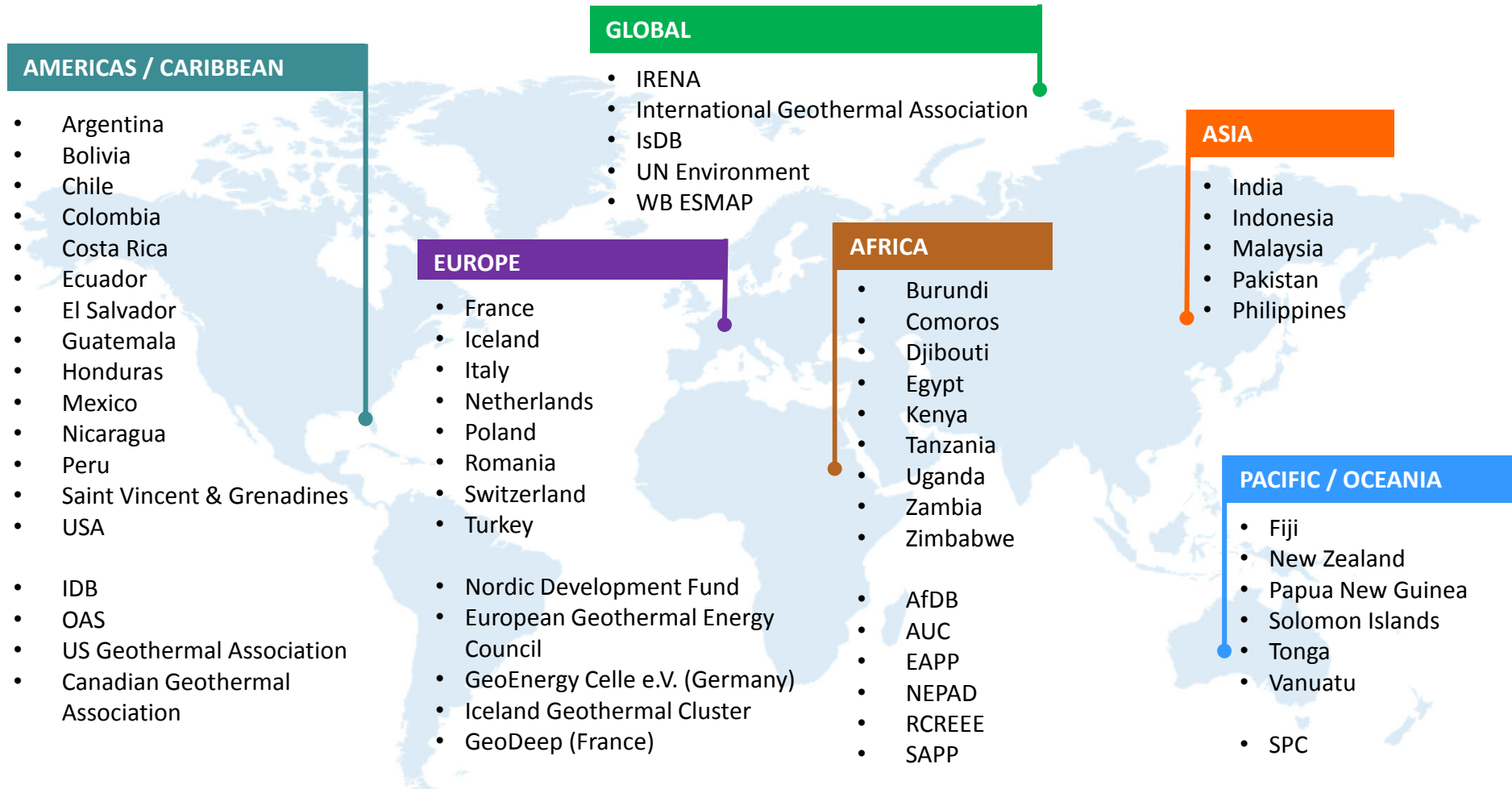
- Neutrality and transparency
- Build on what is on the ground and scale up
- No bureaucracy
- Enabling most mature projects or countries with transformative potential
- Unlocking projects facing policy, legal, regulatory, fiscal, funding, capacity building challenges

Strong Commitment to GGA

Over 70 Members and Partners



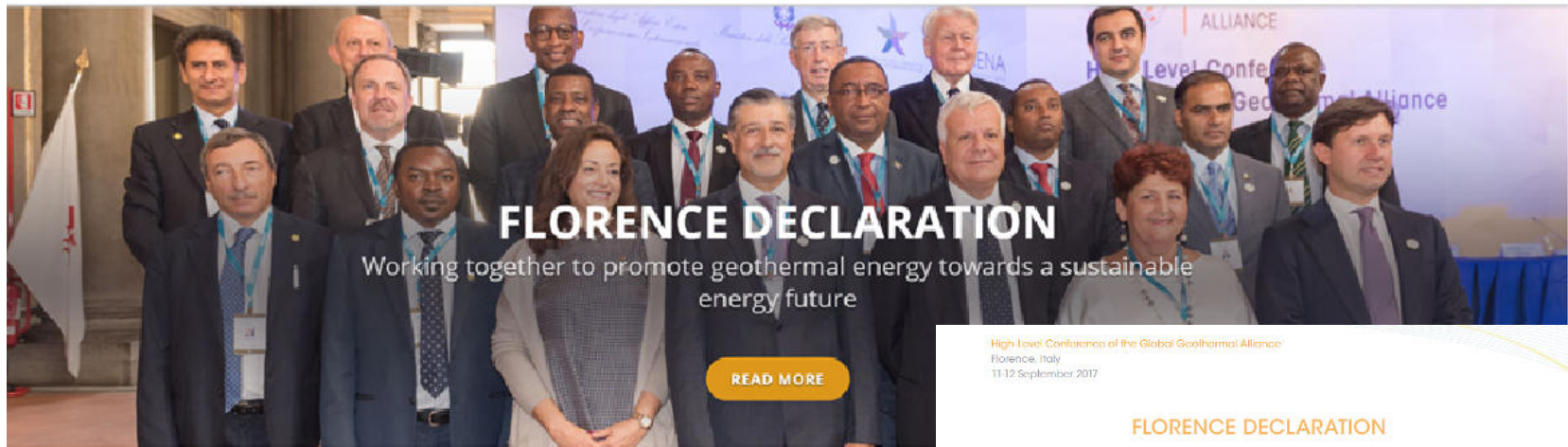
GGA MEMBERS - 42 COUNTRIES ACCROS THE GLOBE



GGA PARTNERS – 29 INSTITUTIONS ACCROS THE GLOBE

INDUSTRY, FINANCIAL INSTITUTIONS, REGIONAL AND DEVELOPMENT ORGANIZATIONS, ACADEMIA AND RESEARCH

Strong Commitment to GGA



- **New Florence Declaration outcome of High Level Conference in Italy (September 2017)**
- **Adopted by attending GGA members**

High Level Conference of the Global Geothermal Alliance
Florence, Italy
11-12 September 2017

FLORENCE DECLARATION

WORKING TOGETHER TO PROMOTE GEOTHERMAL ENERGY
TOWARDS A SUSTAINABLE ENERGY FUTURE

The **Global Geothermal Alliance** has convened its present **High-Level Conference** in Florence, capital city of the Region of Tuscany, where the world's first geothermal power plant came into operation in 1913.

We, high-level representatives of the members' of the Alliance, attending this High-Level Conference at the invitation of the Italian Government and the International Renewable Energy Agency (IRENA);

Recalling that the Alliance was launched in 2015 at COP21 – the 21st Conference of the Parties to the United Nations Framework Convention on Climate Change (UNFCCC) – to serve as a global platform for enhanced dialogue, co-operation and co-ordinated action among policy makers, geothermal industry and other stakeholders to address the challenges hindering accelerated development of geothermal energy;

Recalling the Resolution adopted by the United Nations General Assembly on 25 September 2015, "Transforming our World: The 2030 Agenda for Sustainable

Florence Declaration available online:
www.globalgeothermalalliance.org

GGA Action Plan

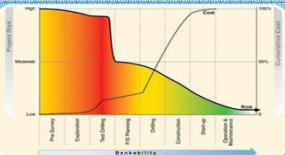
Adopted by GGA Members in May 2016



Resource and Market Assessment



Needs and Obstacles Assessment



Enabling Frameworks



Networking and Outreach

Action Area 1

Resource & Market Assessment

- Enrichment of the **geothermal datasets** in the IRENA Global Atlas
- **Geothermal market status** (East Africa)

Action Area 2

Needs and Obstacles Assessment

Action Area 3

Enabling Frameworks

Regional and Thematic Capacity Building

IRENA Tools and Analysis

Call for Proposals

Capacity Building

Regional and Thematic Initiatives

Geothermal Energy Initiative in the Andes



- Legal and Regulatory Frameworks
- Technical – Environmental Licensing & Reservoir Modelling
- Finance and Risk Mitigation
- Geothermal Skills Needs Assessment Methodology

Geothermal capacity building in Central America



Geothermal financing and risk mitigation in East Africa



Geothermal capacity building in the Pacific



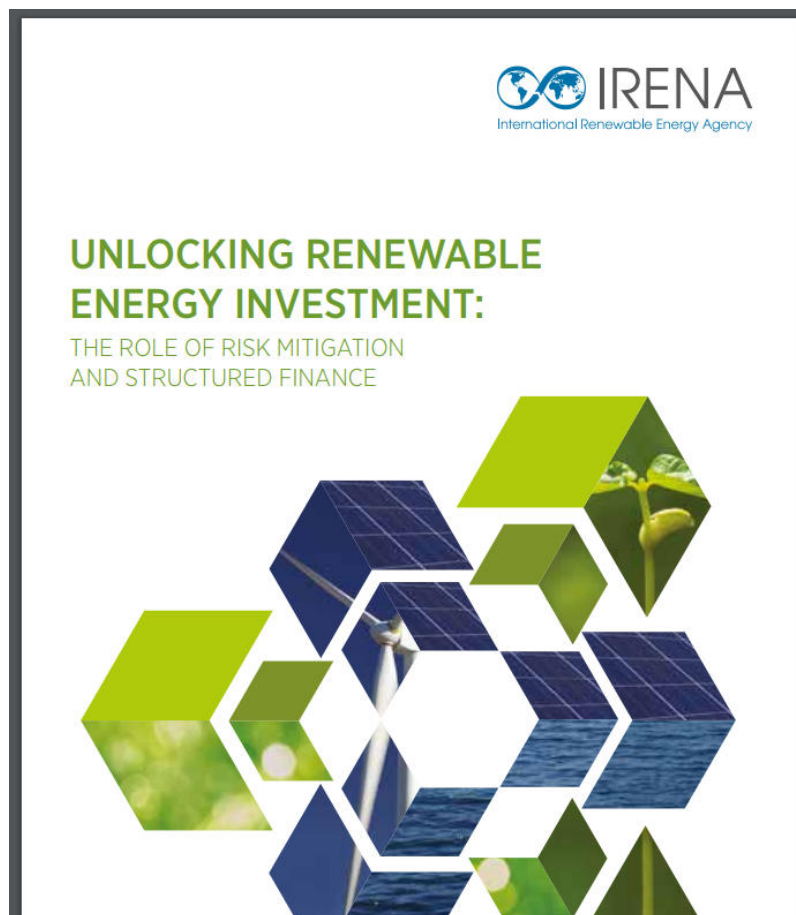
Capacity building on RE options for **district heating** (with geothermal focus)

Upcoming

Geothermal financing and risk mitigation in **East Africa**

Workshop in Kenya, 6-8 December 2017

IRENA Analysis: The role of risk mitigation and structured finance



Insights for Policy Makers and Investors

- » Enabling policies and tools
- » Financial Risk Mitigation instruments
- » Structured finance mechanisms

IRENA Tools: Project Facilitation

Marketplace & RE Project Financing Facility with ADFD

SUSTAINABLE ENERGY MARKETPLACE



"We have real evidence of the increasing worldwide consensus that a sustainable energy future powered by renewables is within reach."
Adnan Z. Amin - Director General



NEW
The Sustainable Energy Marketplace will soon expand to Asia, Southern and Eastern Europe and the Pacific region. If you are seeking to find support or finance projects, please fill out the contact form [available here](#) to be notified when the global platform is open for registration.



Online platform to support project initiation, development and access to financing

IRENA ADFD

Supporting Energy Transition

Concessional financing for innovative renewable energy projects

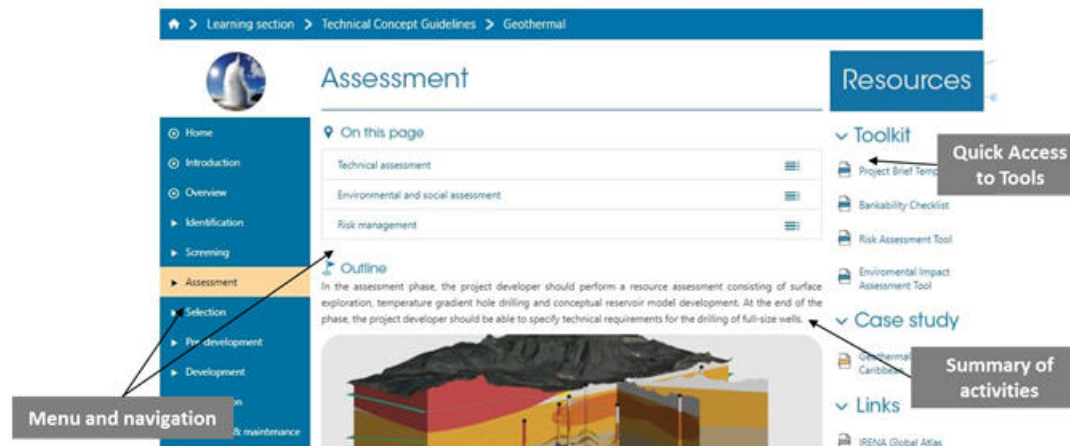
IRENA Tools: Project Facilitation

Project Navigator: Geothermal Module

**Launched in
September 2017**



Tailored project development guidelines available at no cost to enhance the bankability of geothermal power projects



State-of-the-art guidance, tools, and templates developed by IRENA with industry experts

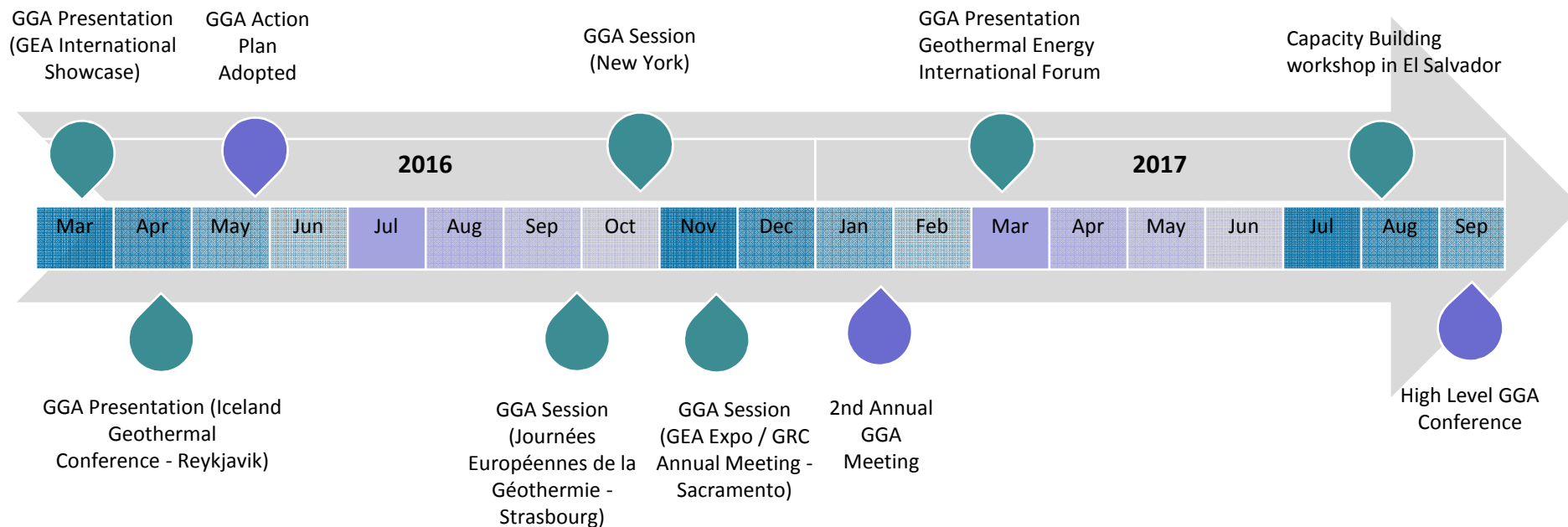
Sign up for a free Navigator webinar on Geothermal



Flash the QR code or register here:
<https://goo.gl/CKBTVb>

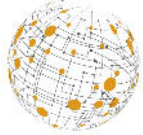
Find out more at www.irena.org/navigator

GGA Action Plan: Network and Outreach



Upcoming events

- ✓ **Nov 2017, Bonn:** GGA event at COP 23
- ✓ **Dec 2017, Nairobi:** Workshop on geothermal financing and risk mitigation
- ✓ **Jan 2018, Abu Dhabi:** 3rd Annual GGA Meeting



GLOBAL GEOTHERMAL ALLIANCE



THANK YOU

Luca Angelino

International Renewable Energy Agency

www.irena.org

Global Geothermal Alliance

www.GlobalGeothermalAlliance.org

Email: GGA@irena.org