

GLOBAL GEOTHERMAL ALLIANCE

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November 2015

Geothermal energy

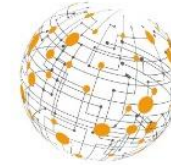
- Mature clean technology
- Stable base-load power
- Direct use of geothermal heat
- Competitive prices



- High upfront costs of surface studies & drilling
- Policy uncertainty
- Shortage of skilled professional
- Perceived environmental issues and licensing
- Low awareness

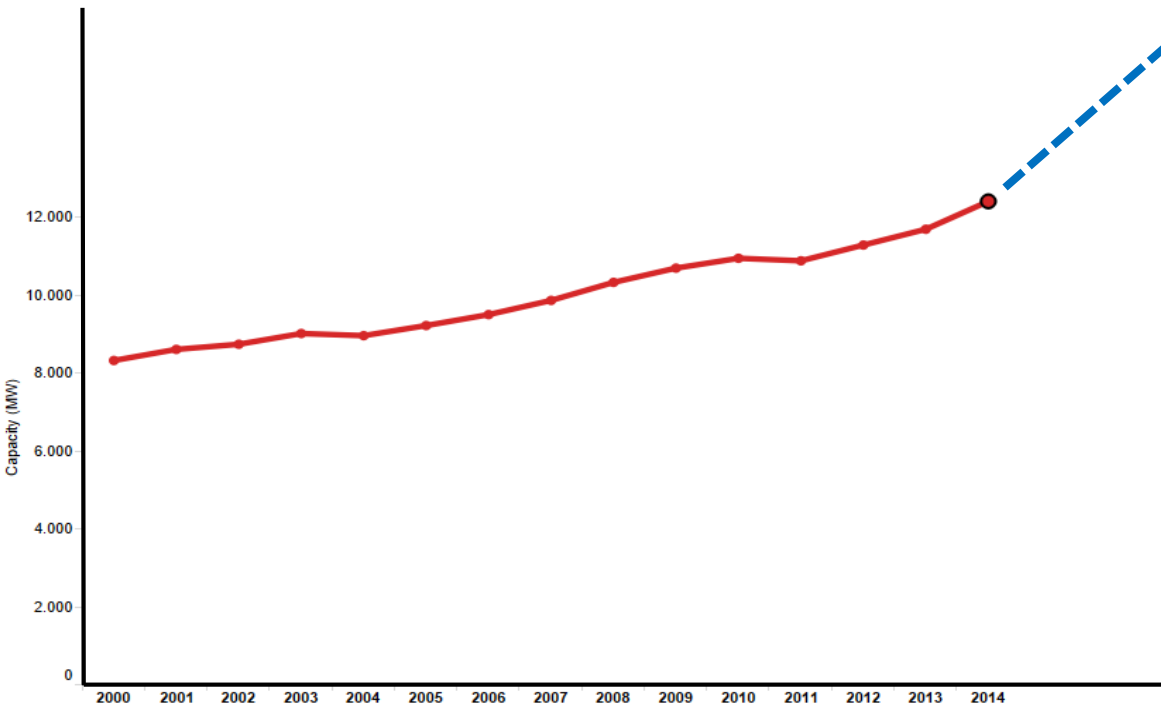
Modest growth of 3-4% per year

Objective



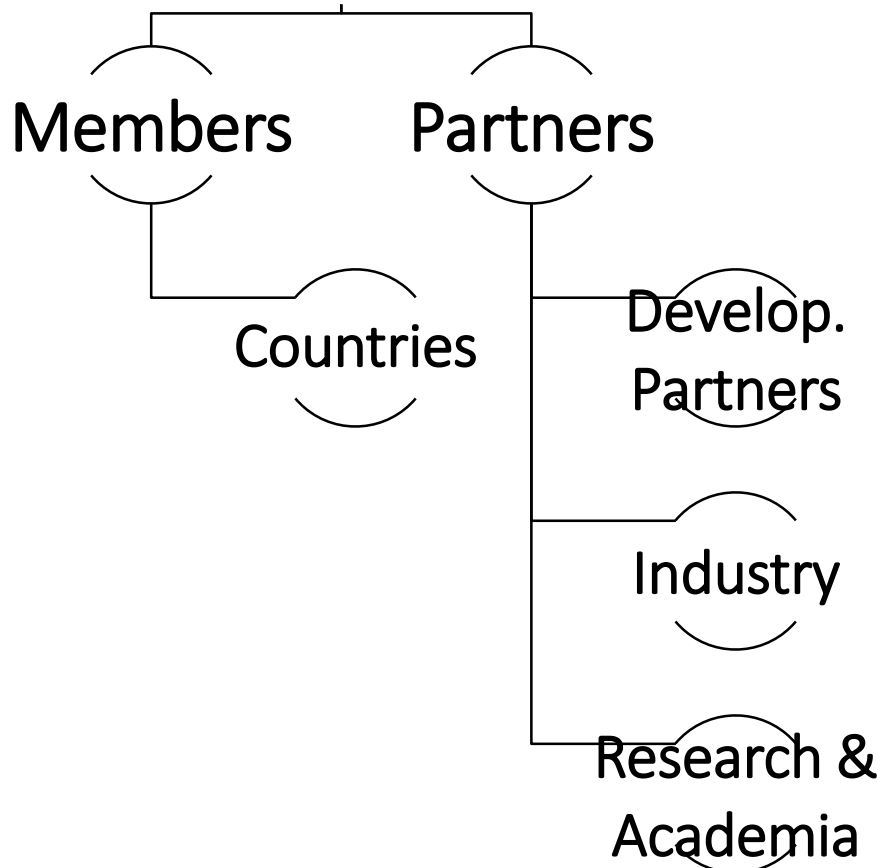
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Geothermal Power Installed Capacity



By 2030*:
Up to **5x**
geothermal power
More than **2x**
geothermal heat

Members & Partners



Africa: Burundi, Djibouti, Egypt, Kenya, Uganda, Zimbabwe

Asia: Indonesia, Malaysia, Pakistan, Philippines

Europe: France, Iceland, Poland, Turkey

America: Bolivia, Colombia, Costa Rica, Ecuador, El Salvador, Guatemala, Honduras, Mexico, Nicaragua, Peru

Small islands: Fiji, Papua New Guinea, Saint Vincent and the Grenadines, Tonga

Development partners:

AfDB, AUC, IaDB, EAPP, IRENA, NEPAD, Nordic Development Fund, SAPP, UNEP, WB-ESMAP

Industry: European Geothermal Energy Council, International Geothermal Association

Geothermal research institutions and academia: Andean Geothermal Centre of Excellence of Chile, Serbian Geological Society, Energy Institute Hrvoje Požar, AGH University of Science and Technology

Scope of activities



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***Platform for
dialogue and
coordination***

**Customized
technical assistance
and advisory
support**

Capacity building

**Outreach and
awareness raising**

Platform for dialogue, cooperation & coordination



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Create synergies

Maximize complementarities

Avoid overlapping efforts and
duplication

Build on & coordinate wt



International
Partnership for
Geothermal
Technology

- International Geothermal Association (IGA)
- Global geothermal development plan (WB ESMAP)
- International cooperation in geothermal R&D (IEA)
- International Partnership for Geothermal Technology (IPGT)
- Geothermal risk mitigation facilities in East Africa (GRMF) and Latin America (GDF)



European Union Africa
Infrastructure Trust Fund



Customized technical assistance and advise



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Creation of enabling regulatory and institutional conditions

Promotion of geothermal energy investments

Capacity building



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Capacity needs assessment & needs-driven & targeted CB

Design and implement CB programs

Strategic partnerships

Outreach & awareness raising



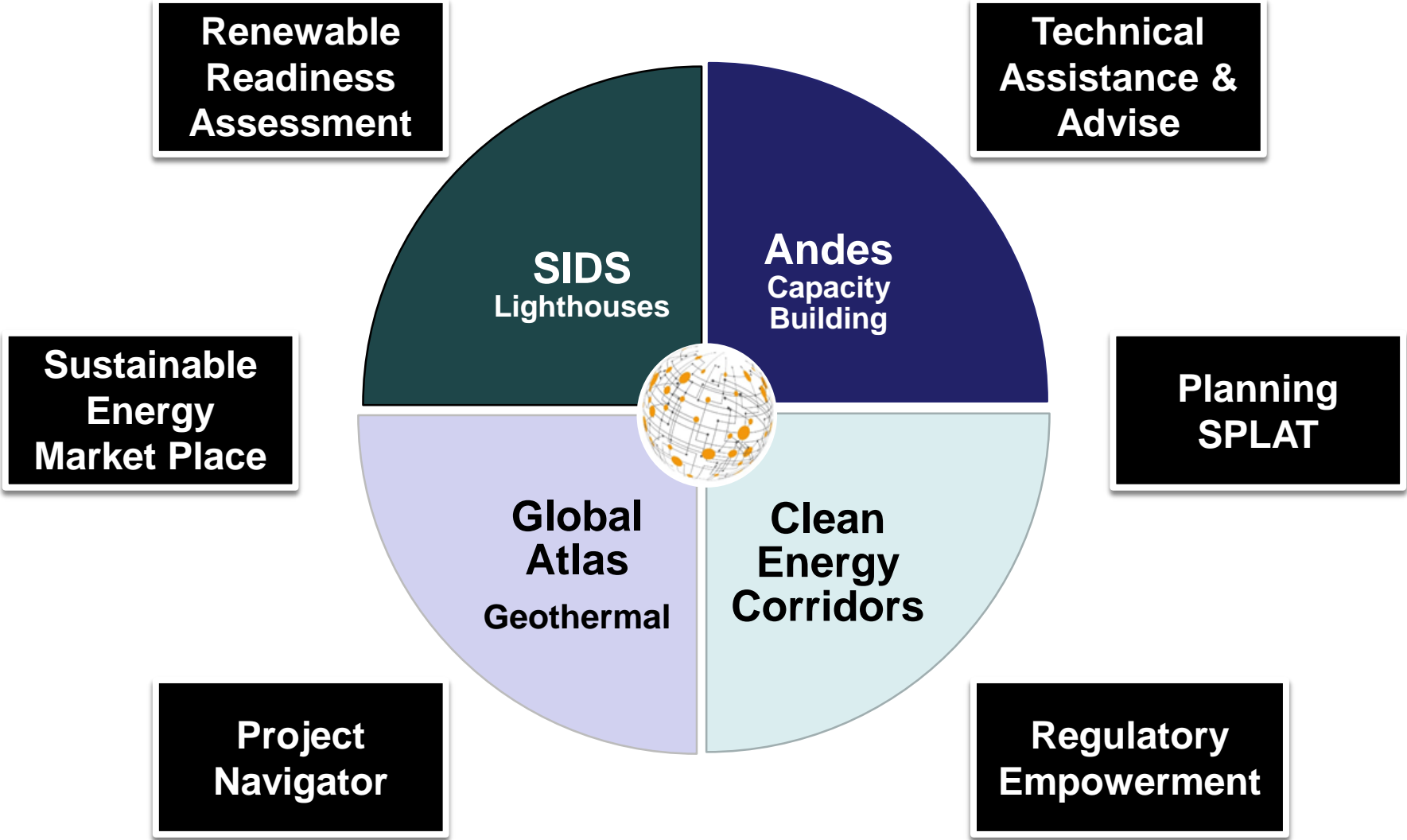
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Advocacy events

GGA website

Communication materials

Integrating IRENA Work



Launched on 23 September 2014 at the Climate Summit

STRATEGIC OBJECTIVE:

- Enabling a sustainable energy transformation for people on the front line of climate change on small islands around the world
- Enhancing energy independence and economic prosperity on SIDS

MAIN ELEMENTS:

- Accelerated RE deployment in the power sector
- Well structured systems transitions
- Information Exchange
- Capacity Building

TARGETS by 2020:

- USD 500 mil mobilized
- 100 MW of new solar PV
- 20 MW of new wind
- Significant quantities of other RE technologies
- All participating SIDS have RE roadmaps





- **27 SIDS and 19 development partners**
- Antigua & Barbuda, Aruba, Bahamas, Barbados, Belize, Cape Verde, Cook Islands, Federated States of Micronesia, Fiji, Grenada, Guyana, Kiribati, Maldives, Republic of the Marshall Islands, Mauritius, Nauru, Niue, Palau, Saint Vincent & the Grenadines, Samoa, Sao Tome and Principe, Seychelles, Solomon Islands, Tonga, Trinidad and Tobago, Tuvalu, Vanuatu
- Carbon War Room, Clinton Climate Initiative, ENEL, European Union, France, Germany, Indian Ocean Commission, IRENA, Italy, Japan, New Zealand, Norway, SE4ALL, Rocky Mountain Institute, UNDP, United Arab Emirates, United States of America, World Bank Group



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Operational principles

Governance

Secretariat

Joining the Alliance

Communication

Funding



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IRENA

International Renewable Energy Agency

GGA concept introduced

Consultations with GGA partners

Multi-stakeholder meeting to finalize GGA concept

Launch



UN Climate Summit



World Geothermal Congress



Ascent meeting



IRENA 5th Assembly



Kenya
15 June 2015



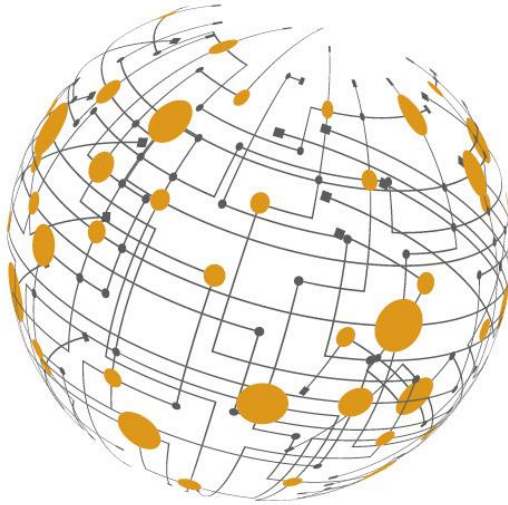
PARIS2015

GGA Joint Statement announced

Consultations with IGA and geothermal associations

2014

2015



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Thank you.