

European Geothermal Energy Council



**DIRECTORY OF FINANCIAL INSTITUTIONS
FOR GEOTHERMAL ENERGY PROJECTS :**

- 1) National Financial Institutions in Europe**
- 2) European Financial Institutions**
- 3) International Financial Institutions**

1) Financial Institutions in Europe (national)

- **Belgium : Fortis**
- **France : Dexia**
- **Germany : Commerzbank**
- **Iceland : Glitnir Bank**
- **Italy : Intesa San Paolo**
- ...

2) European Financial Institutions

•European Union :

-REGIONAL Policy:

- Cohesion Funds (example : video Açores – Portugal)
- Structural Funds

-ENLARGEMENT:

- Instrument for pre-accession assistance – IPA

-COOPERATION & DEVELOPMENT:

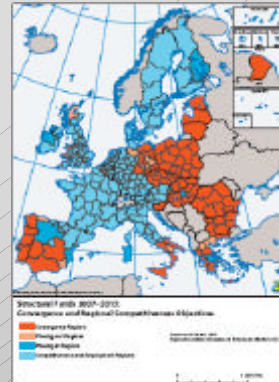
- Europeaid

-ENERGY:

- Altener

-RESEARCH:

- FP7
- SET Plan



Examples SF:

HUNGARY

In 2004-2006, Hungarian Ministry approved 4 Geothermal energy projects co-financed with SF:

Project: Geothermical Energy

Beneficiary: Kistelek Town Municipality
Place: Kistelek (Csongrád, South-Alföld)
EU contribution: ~ 1.1 Million EUR

Project: District Heating using Geothermal Energy

Beneficiary: Bóly Town Municipality
Place: Bóly (Baranya, South-West)
EU contribution: ~ 1 Million EUR

Project: Using Geothermal Energy to Heat and Hot water in 17 Municipality Buildings

Beneficiary: Veresegyház Town Municipality
Place: Veresegyház (Pest, Mid Hungary)
EU contribution: ~0.5 Million EUR

Project: Heat Pump heat/cool System at the Monicomp Ltd using Geothermal Energy

Beneficiary: MONICOMP Computer and Trade Ltd
Place: Páty (Pest, Mid Hungary)
EU contribution: ~0.15 Million EUR

SLOVAKIA

In 2005, the Slovak Ministry of Economy approved 5 projects oriented on utilisation of geothermal energy for funding from SF:

Project title: Utilisation of Geothermal Energy in Bardonovo – Sources and Distribution of Heat.

Beneficiary: MAGMA ZAFÍR, s.r.o., district of Nitra
Allocated grant: 15.18 mil. SKK (1EUR = 37.5 SKK)

Project title: Geothermally heated Swimming Pool Vincov les, Sladkovicovo.

Beneficiary: City of Sladkovicovo, district of Trnava
Allocated grant: 100.00 mil. SKK (1EUR = 37.5 SKK)

Project title: Utilisation of Geothermal Potential of Geothermal Source L-1 for Energy Purposes - feasibility study.

Beneficiary: REP s.r.o., district of Presov
Allocated grant: 3.96 mil. SKK (1EUR = 37.5 SKK)

Project title: Geothermal Boring near Kastiel Tovarniky.

Beneficiary: FKL a brat, spol. s.r.o., district of Nitra
Allocated grant: 54.13 mil. SKK (1EUR = 37.5 SKK)

Project title: Heat Pump.

Beneficiary: TRADEINVEST SERVICE, spol. s r.o., district of Zilina
Allocated grant: 0.391 mil. SKK (1EUR = 37.5 SKK)

-EIB – EIF : in 2007, a minimum lending target of EUR 800m for renewable energy.

3 new initiatives to improve access to finance (2007-2013)

-JASPERS : Joint Assistance to Support Projects in European Regions

-JEREMIE : Joint European Resources for Micro to medium Enterprises

-JESSICA : Joint European Support for Sustainable Investment in City Areas

•Other European Organizations :

-EBRD : European Bank for Reconstruction & Development for Eastern & Central Europe

➤Examples :

First geothermal energy project steams ahead in Russia:

EBRD finance: US\$ 99.9 million (ECU 85.6 million) sovereign loan to the Russian Federation, which subsequently will on lend to Geoterm (the project company) with a 15-year maturity (including a five-year grace period).

Total project cost: US\$ 150.176 million (ECU 128.356 million)

3) International Financial Institutions

➤ WORLD BANK – UNEP – GEF (Global Environment facility) :

<http://www.gefweb.org>

<http://www.unep.org/gef/geothermal>

UNEP has launched three UNEP/GEF geothermal energy project proposals:

- In Africa' Rift Valley, the Argeo project is a program of financial, policy and technical instruments for the promotion of geothermal energy development.
- A Joint Geophysical Imaging project will assess geothermal reservoirs in Kenya with potential impacts for the African Rift Valley.
- The aim of the Eastern Caribbean Geothermal Development project is to overcome the barriers to the development of geothermal power and establish one or more commercially viable geothermal power plants in the region. (Geo Caraibe)

GEO CARAIBE

Eastern Caribbean Geothermal Development Project (Geo-Caraïbes)

The island nations of Dominica, St. Lucia, and St. Kitts and Nevis for power generation

Phase 1 (GEF PDF/B):

Pre-feasibility assistance toward geothermal development in the project countries

US\$700,000 (GEF) + Matching funds (AfD, EDF, OAS, Countries)

12 months (April 2004 – April 2005)

Phase 2 (GEF Full Project):

Feasibility and commercial development of several geothermal energy projects

US\$7.5 MM (GEF) + Matching Funds

Up to six years

ARGEO :

African Rift Geothermal Development Facility (ARGeo)

GEF + UNEP + KfW

Africa, 3-4 initial investments in Kenya, Ethiopia, Djibouti, Tanzania, Uganda and Eritrea

Total project GEF and Co finance:~250 M\$

OTHER GEF PROJECTS :

> Regional - Geothermal Energy Development Program , GeoFund

Regional (Hungary, Bulgaria, Poland, Russian Federation, Romania, Ukraine, Tajikistan, Turkey, Armenia)

GEF Grant = 25.700 US\$m

Cofin Amount = 175.000 US\$m

Project Cost = 200.700 US\$m

Approval Date = May 16, 2003

Promote the use of geothermal energy in the ECA Region through assistance in barrier removal, provision of financial support, and capacity building.

> Klaipeda **Geothermal** Demonstration Project

GEF Allocation = US\$6.90 million

Cofinancing = US\$11.12 million

(Government of Lithuania) = US\$2,600,000

(World Bank) = US\$5,900,000

(Ministry of Energy, Denmark) = US\$2,500,000

(European Union- Phare) = US\$120,000

Total Financing = US\$18.02 million

Dates = May 1996- July 1999

Project Goals : Demonstrate use of low-temperature **geothermal** water for district heating systems

> Philippines : Leyte-Luzon **Geothermal**

GEF Allocation = US\$30.0 million

Cofinancing = US\$1,303.60 million

US\$240.3 million (World Bank)

US\$170.0 million (Export and Import Bank of Japan)

US\$620.4 million (build-operate-transfer contract)

US\$39.0 million (Swedish Agency for International Technical and Economic Cooperation)

US\$92.0 million (Philippine National Oil Company)

US\$141.9 million (National Power Corporation)

Total Financing = US\$1,333.60 million

Dates = May 1994- June 1999

Project Goals : Develop **geothermal** power and test effectiveness of carbon dioxide capture and reinjection