EERA

set.eu/eera-joint-programmes-jps/geothermal/

Suchen

EERA
European Energy Research Alliance

Coordinating energy research for a low carbon Europe

JOINT PROGRAMMES

- AMPEA
- BIOENERGY
- CARBON CAPTURE AND STORAGE
- CONCENTRATED SOLAR POWER (CSP)
- ECONOMIC, ENVIRONMENTAL AND SOCIAL IMPACTS (JP E3S)
- ENERGY EFFICIENCY IN INDUSTRIAL PROCESSES
- ENERGY STORAGE
- FUEL CELLS AND HYDROGEN
- GEOTHERMAL
- NUCLEAR MATERIALS

You are here » EERA Joint Programmes (JPs)

Geothermal

Launched

News of this program

Useful documents

EERA intranet

Have a look at the participants/associates

A total of 420 person years/year, for an equivalent budget of more than € 30 MILLION/year, are working with different roles and responsibilities for the JPGE's ongoing and foreseen research activities and ready to share research infrastructure such as laboratories and computer facilities among the participants.

BACKGROUND

Geothermal energy is a non-carbon-based renewable energy source, able to provide base load power for electricity and heat generation in many countries around the world. In continental Europe the geothermal potential is estimated to be over 50.000 MW, but only in Italy, Iceland, and Portugal it has been harnessed for the generation of electricity (over 1.400 MW installed

EERA – JPGE Participants

www.eera-set.eu

2010

Short Name	Country
BRGM	France
CEGL	Italy
CNR	Italy
CNRS	France
CRES	Greece
ETH Zürich	Switzerland
GFZ Potsdam	Germany
ISES	Netherlands
ISOR	Iceland
KIT	Germany
LIAG	Germany
TNO	Netherlands

12 participants
7 countries
~250 persons

2012

Short Name	Country
Uni Neuchâtel	Switzerland
ENEA	Italy
INGV	Italy
LNEG	Portugal
PT Milano	Italy
BGS	UK
RWTH Aachen	Germany
U Torino	Italy
VITO	Belgium
IFE	
U Bari	
U Trieste	
TU Darmstadt	

25 parti
11 countries
~350 persons

2013

Short Name	Country
TÜBITAK	Turkey
OGS	Italy
PT Torino	Italy
IRIS	Norway
GZ Bochum	Germany
Sintef	Norway

2014

CMR- Norway
Tre – Italy
- Germany

ermany
Polish Geological Institute - Poland

Current status:
35+ participants
13 countries
~400 persons

Large scale research infrastructure

Deep geothermal energy, both hydro- and petrothermal:

Soultz-sous-Forêts BRGM, KIT (F), → EGS

Triest OGS (I), Testfield geophysical methods

VisLab UFZ (D), Process visualisation

Gross Schönebeck GFZ (D), → Deep thermal water loop

Stavanger IRIS (N), → Drilling simulator

GeoLaB KIT (D); (2022 +), → EGS

IDDP ISOR (Is), → supercritical Reservoir

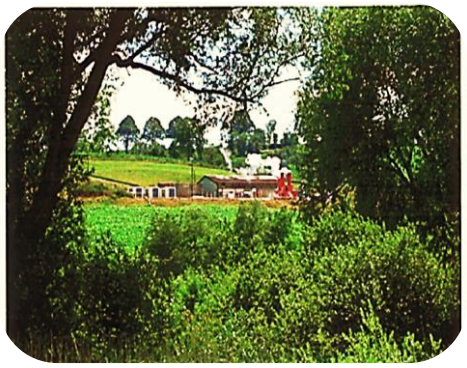
…

Äspö SKB (S),

Grimsel NAGRA (CH),

Structure of the JPGE

www.eera-set.eu



SP5

SUSTAINABILITY, ENVIROMENT AND REGULATORY FRAMEWORK

SP1

RESOURCE ASSESSMENT

Overall goal

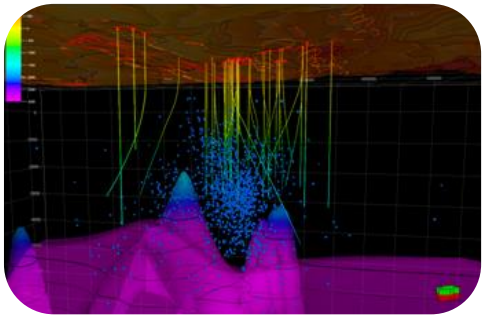
Development of new cost– effective technologies suitable for a sustainable growth of geothermal energy in Europe and worldwide

SP4

PROCESS ENGINEERING AND MANAGEMENT OF GEOTHERMAL SYSTEMS

SP2

EXPLORATION



SP 3

ACCESSING AND ENGINEERING A RESERVOIR

JP Geothermal Energy

Geothermal **E**ngineering Integrating Mitigation of **I**nduced **SE**ismicity in **R**eservoirs

The European GEISER project

2010-2013

- Develop mitigation strategies of induced seismicity in geothermal systems
- Provide legal and administrative guidelines for licensing of geothermal power generation

Funding period: 42 months, starting January 2010
Co-funded by the European Commission within FP7
13 partners from 7 countries, 2 industry

→ **SP 3, 4, 5**

GEISER

SEVENTH FRAMEWORK PROGRAMME

IMAGE: Integrated Methods for Advanced Geothermal Exploration

- ☆ Magmatic sites
- ☆ Non-magmatic sites

IMAGE

November 2013 + 4 years

Budget: 13 Mio €, (incl. EC 10 M€)

19 partners (6 from industry)

→ SP 1, 2