**Demonstration of soft stimulation treatments of geothermal reservoirs**

**Fact Sheet**

<table>
<thead>
<tr>
<th>Project Information</th>
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<tr>
<td><strong>DESTRESS</strong></td>
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<tr>
<td>Grant agreement ID: 691728</td>
<td></td>
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<td><strong>Project website</strong> [🔗]</td>
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<tr>
<td>Status</td>
<td>Ongoing project</td>
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<tr>
<td>Start date</td>
<td>End date</td>
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<tr>
<td>1 March 2016</td>
<td>30 November 2020</td>
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- Funded under H2020-EU.3.3.2.4.
- H2020-EU.3.3.2.2.
- H2020-EU.3.3.2.1.

- Overall budget € 24 713 964,19
- EU contribution € 10 713 408,63

Coordinated by HELMHOLTZ ZENTRUM POTSDAM DEUTSCHES GEOFORSCHUNGSZENTRUM GFZ Germany

This project is featured in...
Objective

DESTRESS is aimed at creating EGS (Enhanced geothermal systems) reservoirs with sufficient permeability, fracture orientation and spacing for economic use of underground heat. The concepts are based on experience in previous projects, on scientific progress and developments in other fields, mainly the oil & gas sector. Recently developed stimulation methods will be adapted to geothermal needs, applied to new geothermal sites and prepared for the market uptake. Understanding of risks in each area (whether technological, in business processes, for particular business cases, or otherwise), risk ownership, and possible risk mitigation will be the scope of specific work packages.

The DESTRESS concept takes into account the common and specific issues of different sites, representative for large parts of Europe, and will provide a generally applicable workflow for productivity enhancement measures. The main focus will be on stimulation treatments with minimized environmental hazard (“soft stimulation”), to enhance the reservoir in several geological settings covering granites, sandstones, and other rock types. The business cases will be shown with cost and benefit estimations based on the proven changes of the system performance, and the environmental footprint of treatments and operation of the site will be controlled. In particular, the public debate related to “fracking” will be addressed by applying specific concepts for the mitigation of damaging seismic effects while constructing a productive reservoir and operating a long-term sustainable system.

Industrial participation is particularly pronounced in DESTRESS, including large energy suppliers as well as SMEs in the process of developing their sites. The composition of the consortium involving major knowledge institutes as well as key industry will guarantee the increase in technology performance of EGS as well as an accelerated time to market.

Field of science

/social sciences/economics and business/business and management/commerce
/engineering and technology/environmental engineering/energy and fuels/fossil energy/gas
/social sciences/economics and business
Programme(s)

Topic(s)

Call for proposal
H2020-LCE-2015-2

Funding Scheme
IA - Innovation action

Coordinator

HELMHOLTZ ZENTRUM POTSDAM DEUTSCHESGEOFORSCHUNGSZENTRUM
GFZ

Address
Telegrafenberg 17
14473 Potsdam
Germany

Activity type
Research Organisations
EU contribution
€ 6 147 736,56

Website
Contact the organisation

Participants (17)

ENBW ENERGIE BADEN-WURTTEMBERG AG

Address
Durlacher Allee 93
76131 Karlsruhe
Germany

Activity type
Private for-profit entities
(excluding Higher or Secondary Education Establishments)
EU contribution
€ 333 203,50

Website
Contact the organisation
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<th>Activity type</th>
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<tr>
<td>ES-GEOTHERMIE</td>
<td>France</td>
<td>€ 685 475</td>
<td>26 Boulevard Du President Wilson</td>
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<tr>
<td>UNIVERSITY OF GLASGOW</td>
<td>United Kingdom</td>
<td>€ 395 107,50</td>
<td>University Avenue G12 8QQ Glasgow</td>
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<td>GEO-ENERGIE SUISSE AG</td>
<td>Switzerland</td>
<td>€ 0</td>
<td>Reitergasse 11 8004 Zurich</td>
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<td>NEDERLANDSE ORGANISATIE VOOR TOEGEPAST NATUURWETENSCHAPPELIJK ONDERZOEK TNO</td>
<td>Netherlands</td>
<td>€ 867 057,50</td>
<td>Anna Van Buerenplein 1 2595 DA Den Haag</td>
<td>Research Organisations</td>
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EIDGENOESSISCHE TECHNISCHE HOCHSCHULE ZUERICH

Switzerland

EU contribution € 0

Address
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8092 Zuerich

Activity type
Higher or Secondary Education Establishments

Contact the organisation

GEOTHERMIE NEUBRANDENBURG GMBH

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EU contribution € 113 093,75

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17033 Neubrandenburg

Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)

Contact the organisation

GEOTERMA UAB

Lithuania

EU contribution € 5 843

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Lypkiu Street 17
LT-94100 Klaipeda

Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)

Contact the organisation

UNIVERSITE DE STRASBOURG

France

EU contribution € 1 204 674,49

Address
Rue Blaise Pascal 4
67081 Strasbourg

Activity type
Higher or Secondary Education Establishments
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<td>Netherlands</td>
<td>€ 513 750</td>
<td>Stevinweg 1 2628 CN Delft</td>
<td>Higher or Secondary Education Establishments</td>
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<td>NEXGEO INC</td>
<td>South Korea</td>
<td>€ 0</td>
<td>5F 6F Jeonghwa Bldg 39Yangjae Daero 66 Gil 138800 Seoul</td>
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<td>SEOUL NATIONAL UNIVERSITY</td>
<td>South Korea</td>
<td>€ 0</td>
<td>Sillim-dong, Gwanak-gu San 56-1 151742 Seoul</td>
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<td>KOREA INSTITUTE OF CIVIL ENGINEERING AND BUILDING TECHNOLOGY</td>
<td>South Korea</td>
<td>€ 0</td>
<td>Goyang Daero 283 Ilsaneo Gu Gyeongg</td>
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<td>ECW GEOMANAGEMENT BV</td>
<td>Netherlands</td>
<td>€ 16 595,49</td>
<td>Agriport 109 1775 TA Middenmeer</td>
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<td>TRIAS WESTLAND BV</td>
<td>Netherlands</td>
<td>€ 279 259,34</td>
<td>Nieuweweg 1 2685 AP Poeldijk</td>
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<td>UNIVERSITEIT UTRECHT</td>
<td>Netherlands</td>
<td>€ 151 612,50</td>
<td>Heidelberglaan 8 3584 CS Utrecht</td>
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<td>KIGAM (KOREA INSTITUTE OF GEOSCIENCE AND MINERAL RESOURCES)</td>
<td>South Korea</td>
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