



Report on the GEMex project website

D 2.2

Report on the GEMex project website

D 2.2

Version 1.0 Eugenio Trumpy CNR Work package 2 29.12.2016 Website: http://www.gemex-h2020.eu



The GEMex project is supported by the European Union's Horizon 2020 programme for Research and Innovation under grant agreement No 727550

Table of Contents

List of Figures	3
The project website	4

List of Figures

Figure 1: Home page	6
Figure 2: Consortia page.	7
Figure 3: GEMex private part serving as VRE access	8

The project website

This is to certify that the GEMex Project website (D2.2) is online and can be reached at the link <u>http://www.gemex-h2020.eu</u>

The website structure is complete, and the site is ready to be continuously upgraded.

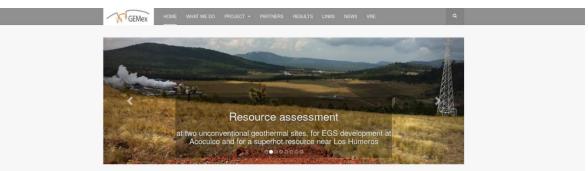
The home page presents a main menu on the top to link the users to the main information related to the GEMex project:

- 'What we do' reports key points of the Enhanced Geothermal Systems and Super-Hot Geothermal System under characterization by the project
- 'Project' item describes the three pillars leading the GEMex project and the topics covered by the Work-packages.
- 'Partners' link drives the users to a map including all the participants in the GEMex project
- 'Results' reports a table with all the deliverables foreseen by the project. Each deliverable will be marked in green once it will be delivered. It will be available also a link to the executive summary of the deliverable.
- 'Links' lead the users to a special page that collects the key information of the running geothermal research and innovation project funded by the European Commission.
- 'News' will collect all the news from the project
- OADB allows users to get the Opea Access Database, which store the data collected and elaborated during the GEMex project
- 'VRE' is the connection to the Virtual Research Environment that acts as project partner's area, which enables the continuous exchange of internal information between the consortia.

The home page hosts four dedicated links to the identified target group. By these links the users will get a dedicated page including the project results that they concern.

In the home page are also collected the most recent news as well as most important information on GEMex project as the 'Ambition' and the descriptions of the two geothermal sites under investigation.

Here below the home page (figure 1), project consortia page (figure 2), GEMex private part served by VRE (figure 3) as examples:



ublic Authority	Industry	Research centers	Citizens	
320×150	320×150	320×150	320×150	
I'm from Public authority See results for this target group	I'm from Indistry See results for this target group	I'm from Research centers See results for this target group	I'm from Citizens See results for this target group	

News

Kick off meeting in Morelia

GEMex kick off meeting took place in Morelia, Mexico on November 15, 2016. GEMex (Cooperation in Geothermal energy research Europe-Mexico for developinnent of Enhanced Geothermal Systems and Superhol Geothermal Systems) brings together partners from Europe and Mexico to develop innovative methods for accessing geothermal resources in variable geological formations. The ultimate objective is to reduce costs for both geothermal electricity and heat production. Read more ...

Ambition



GEMex has the ambilion to bring together the extended Mexican know how of discovering, developing, and deploying conventional geothermal energy systems with a variety of European expertise from similar geothermal energy systems (Italy, Iceland etc.), of developing EGS technology, and finding new approaches to make use of super-hot geothermal systems). The approach should lead to concepts for excluded future deployment of geothermal energy in Europe and Mexico. This will be done by common site developments, one for hot-EGS (Enhanced Geothermal Systems) and one for SHGS (Super-Hot Geothermal Systems). This approaches of competencies of competencies of conclusional dechnologies and will lead to an acceleration of the tearning curve for geothermal development. Potential drill paths will be developed in the target areas in order to maximise the scientific output. The findings will be compared to extended experiences in EGSprojects in Europe and elsewhere and with the few SHGS-projects in Europe (IDDP1) and Japan (Kakkonda).

stem

GEMex ID-CARD

Acronym	GEMex	CENT
Title	Cooperation in Geothermal energy research Europe-Mexico for development of Enhanced Geothermal Systems and Superhot Geothermal Systems	> M r GEMEX
Topic	LCE-23-2016	
Call identifier	H2020-LCE-2016-RES-CCS-RIA	
Grant Agreement number	727550	
Duration	36 Months	
Start date	01/10/2016	
Estimated project cost	9′999′792.50 €	
Requested EU contribution	9'999'792.50 €	

0 -

۰.

.

Los Humeros

The geothermal system at Los Humeros is currently exploited. The northerm part of the area, however, is much holter (>380°C) than the wells used for producion today. The development of this part of the reservoir presents a challenge, both because of the high temperature and because of the water chemistry. In addition, the area has only been poorly characterised by geophysical and geological surveys. Therefore our understanding required for the development and exploitation of this super-hot resource is limited. The uncertainly about the potential of this resource and the technical challenges involved with the development of such a super-hot geothermal system currently prevent its economic development.



0

Acoculco



The site at Acoculo, foreseen for EGS development, has been explored by two deep wells drilled by the CFE (Comisión Federal de Electricidad). These wells found hardly any fluids but temperatures around 300°C at a depth of 2 km. The tack of fluids at depth is surprising, as this area of Mexico is subject to an interesting target for exploitation and the lack of a clear resource makes it an interesting target for exploitation and the lack of a clear resource makes it an ideal region for testing our Knowledge on how to constrain an area where EGS can be performed.

1	Main objective 1. To speed up the gothermal development in Maxico and beyond 2. To reduce pre-drift mining ratk by in depth understanding of the geological context of the resource 3. To improve geophysical imaging and detection of deen reservori	Project Info EU Info: START DATE: 01 Oct 2016 DURATION: 3 years EC CONTRIBUTION for EU consortium: 9'99'792:50 euro MEX Info:	EU coordinator For any question on this project, please constact Dr. Durble Buhn (Scientific Coordinator) GEZ HELIMOLTZ ZENTRUM POTSDAM Telegramentery 17, Distam 11473, Germany 0. +44 0000000	MEX coordinator For any question on this project, glease contact Dr. Aida López Hernández (Solentific Coordinator) (Lossiant) Coordinate Hernández (Nordia de Hernández) Grak, Franctisco J, Magica SN, Cauda Universitatiar, Francisco-at, Magica SN, Cauda Universitatiar, Francisco-atmetento Real	
	and Secolar of Vector Factor (a) structures productive models for reservoir characterisation and simulation 5. To provide conceptual models for sustainable site development, including	START DATE: 01 Oct 2016 DURATION: 4 years CONTRIBUTION for MEX consortium: 0'000'000.00 euro	M HAR DODODODO E +44 00000000 M +44 000000000 e-mail: dbruhn[at]gfz-potsdam[dot]de	Universida, Saz Sono Meelle, Mich., Mexico Q +52 443 522 3500 £ +52 0000000000 £ +52 000000000 e-mait: aidalopher[at]gmail[dot]com	
	This project has received functing from the European publication/multimedia product/presentation reliects	Union's Harbord 2000 Framework Programme for Re- the views of the author, and the European Union cam	search and knowalion (H0000 LCE-02 4016) under of be held responsible for any use which might be ma	rant agreement No. 727500. This eld of the information contained barelin	3

Figure 1: Home page

•

Consortia

	GEMex Conso	stria *		< ∷
1	N		Que O Finland	and the second
L.V		Canada Hustoon Bay	a Charles	
	U sc	Al us	reland United Dennak Polar Belarus	
		00 00	Ukraine	3 5
	cit	D INT IN NO OF NO	France Romania	mil
	CA	W ur Unite States CO KS MO X W V2 North	Spein Portugal Gre Turke	" the
		Atlantic Ocean	Morocco Turinia	kog 1
(+)		Miles Gutf of Mance	Algeria Libya Egypt	Saudi Arabia
-		Busterede Caribbase See Google My Maps	Mauritania Mali Niger Chad Sudan	Yemen
Map date ®	2016 Google, INEG	Partner	Legal Address	Role
o	Germany	HELMHOLTZ ZENTRUM POTSDAM DEUTSCHES GEOFORSCHUNGSZENTRUM -	Telegraenberg 17. Potsdam 14473. Germany	
<u> </u>		(GFZ)		
•	Iceland	ISLENSKAR ORKURANNSOKNIR - (ISOR)	Grensasvegi 9, Reykjavik 108	Partner
•	Netherlands	NEDERLANDSE ORGANISATIE VOOR TOEGEPAST NATUURWETENSCHAPPELIJK ONDERZOEK - (TNO)	Anna Van Buerenplein 1, Den Haag 2595 DA	Partner
0	Italy	UNIVERSITA DEGLI STUDI DI BARI ALDO MORO - (UNIBA)	Piazza Umberto I 1, Bari 70121	Partner
•	Netherlands	UNIVERSITEIT UTRECHT - (UU)	Heldelberglaan 8, Utrech 3584 CS	Partner
•	Germany	RHEINISCH-WESTFAELISCHE TECHNISCHE HOCHSCHULE AACHEN - (RWTH)	Templergraben 55, Aachen - 52062, Germany	Partner
•	Italy	NATIONAL RESEARCH COUNCIL OF ITALY - (CNR)	Plazzale Aldo Moro 7, ROMA - 00185, Italy	Partner
•	Germany	TECHNISCHE UNIVERSITAT DARMSTADT - (TUDA)	Karolinenplatz 5, Darmstadt 64289	Partner
•	France	BUREAU DE RECHERCHES GEOLOGIQUES ET MINIERES - (BRGM)	3 Av. Claude Guillemin, Orleans 45060	Partner
0	Norway	INSTITUTT FOR ENERGITEKNIKK - (IFE)	Instituttvelen 18, Kjeller 2027	Partner
•	Greece	CENTRE FOR RENEWABLE ENERGY SOURCESAND SAVING FONDATION · (CRES)	Marathons 19th km, Pikermi 19009	Partner
•	Italy	ISTITUTO NAZIONALE DI OCEANOGRAFIA E DI GEOFISICA SPERIMENTALE - (OGS)	Borgo Grotta Gigante 42/C, Sgonico-Trieste 34010	Partner
•	Norway	UNI RESEARCH AS - (CIPR)	Thormohlens Gate 55, Bergen 5008	Partner
•	Italy	UNIVERSITA DEGLI STUDI ROMA TRE - (UROMA3)	Via Ostiense 159, Roma 00154	Partner
•	Italy	AGENZIA NAZIONALE PER LE NUOVE TECNOLOGIE, L'ENERGIA E LO SVILUPPO ECONOMICO SOSTENIBILE - (ENEA)	Lungotevere Grande Ammiraglio Thaon di Revel 76	Partner
0	Italy	SCUOLA SUPERIORE DI STUDI UNIVERSITARI E DI PERFEZIONAMENTO SANT'ANNA - (SSSA)	Piazza Martiri Della Libertà 33, Pisa 56127	Partner
•	Germany	KARLSRUHER INSTITUT FUER TECHNOLOGIE - (KIT)	Kalserstrasse 12, Karlsruhe 76131	Partner
•	United Kindom	NATURAL ENVIRONMENT RESEARCH COUNCIL - (NERC)	Polaris House, North Star Avenue, Swindon Wiltshire SN2 1EU	Partner
0	Germany	HOCHSCHULE BOCHUM - (HBO)	Lennershofstrasse 140, Bochum 44801	Partner
•	Italy	UNIVERSITA DEGLI STUDI DI TORINO - (UNITO)	Via Gluseppe Verdi 8, Torino 10124	Partner
9	Poland	PANSTWOWY INSTYTUT GEOLOGICZNY - PANSTWOWY INSTYTUT BADAWCZY - (PIG)	Rakowiecka 4, Warszawa 00975	Partner
•	Belgium	EUROPEAN GEOTHERMAL ENERGY COUNCIL, EGEC AISBL - (EGEC)	Rue D'arlon 63-67, Bruxelles 1040	Partner
•	Germany	HELMHOLTZ-ZENTRUM FUER UMWELTFORSCHUNG GMBH - (UFZ)	Permoser Strasse 15, Leipzig 04318	Partner
•	Germany	IGA SERVICE GMBH - (IGA)	Lennershofstr. 140, Bochum 44801	Partner

Figure 2: Consortia page.

l

Ĩ

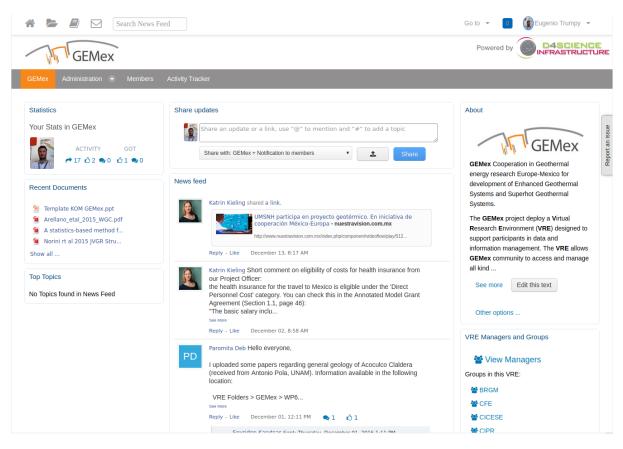


Figure 3: GEMex private part serving as VRE access



Coordination Office, GEMex project

Helmholtz-Zentrum Potsdam Deutsches GeoForschungsZentrum Telegrafenberg, 14473 Potsdam Germany