

H2020 Project # 640573 DESCRAMBLE
Document: Deliverable 6.1 – Project Website
Dissemination level: Public

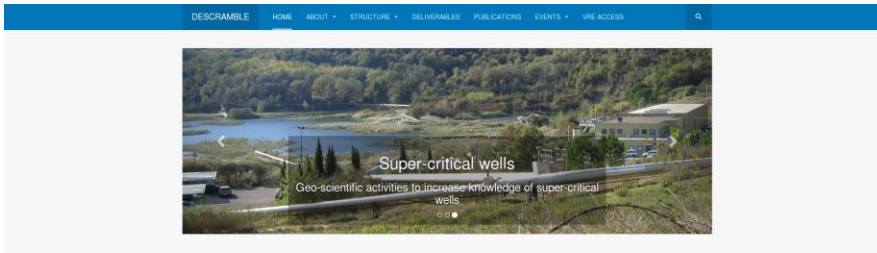


This is to certify that the DESCRAMBLE Project website (D6.1) is online and can be reached at the link <http://www.descramble-h2020.eu>

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

Here below the home page (figure 1), project structure page (figure 2), DESCRAMBLE private part served as VRE access (figure 3) as examples:

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Background

In the EU H2020 call, "Work Program 2014-2015" "Low Carbon Energy", LCE 2-2014/2015, "Developing the next generation technologies of renewable electricity and heating/cooling", the geothermal activity for development of new drilling technologies and concepts for geothermal energy will be financed; new drilling technologies and concepts are necessary to increase the number of economically viable geothermal resources, including in hard rock and high temperature/pressure conditions, and have a demonstrably smaller environmental footprint by comparison to existing drilling methodologies. Cross-fertilisation with hydrothermal oil and gas technologies and operations shall be explored. Our DESCRAMBLE project fits completely into the topics of this call.

Project Information

DESCRAMBLE ID-CARD

Acronym	DESCRAMBLE
Title	Drilling in eExp. Super-Critical Ambient of continental, Europe
Call	H2020-LCE-2014-1
Type of action	RIA
Grant Agreement number	640573
Duration	36 Months
Start date	01.05.2015
Estimated project cost	15815955.00€
Requested EU contribution	6753635.00€
Total effort	438 Person-months
Project Coordinator	Ruggiero Bertani - ENEL Green Power (EGP)
Project officer	Paolo Petrov



Location




The experiment site is in the **Larderello** area, Tuscany (Italy). This choice is motivated by various factors:
 The site has been used for geothermal energy exploitation for over 100 years, consequently large amounts of data and experience have been gathered, and there is a well-developed infrastructure in place. Both of which will reduce the cost related to drilling and exploration.
 The combination of shallow depth for super-critical conditions and the possibility to deepen an existing well reduces the cost of drilling and focuses the project on drilling into formations with super-critical conditions and its related challenges.
 Experience from the nearby wells, combined with seismic investigations gives a high probability of reaching the drilling target.
 The site is representative of deep conditions in continental crust, the most common condition in Europe. Indeed, the expertise gained from drilling in super-critical reservoirs in Larderello is not limited to the specific location. There are 'deep, super-critical geothermal reservoirs' in several countries in Europe and the rest of the world, at greater, but still drillable, depths.



<p>Consortium</p> <p>ENEL Green Power CSR RWTH CAJ TU-BAC SINTEF FN SINTEF ICT</p>	<p>Project Information</p> <p>START DATE: 01 May 2015 DURATION: 3 years EC CONTRIBUTION: 15815955 euro COORDINATOR: Dott. Ruggiero Bertani</p>	<p>Main objectives</p> <ol style="list-style-type: none"> 1. Demonstrate safe drilling of a deep super-critical geothermal well. 2. Reduce the technical and economic risks of drilling and installing deep geothermal wells. 3. Reduce pre-drill uncertainty in the exploration of deep geothermal wells. 4. Investigate the economic potential of exploiting chemicals and minerals. 	<p>Contact</p> <p>For any question on this project please contact: Dott. Ruggiero Bertani (Scientific Coordinator) Innovation and Sustainability ENEL Green Power SpA 56122 Pisa, Italy Via Andrea Pisano 120 G +39 0506189500 F +39 0506189504 M +39 3299006574 e-mail: ruggiero.bertani@enel.com www.enelgreenpower.com</p>
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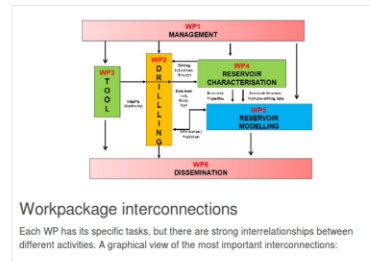
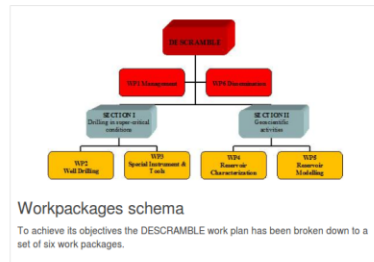
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Figure 1: Home page



Structure



The table below gives an outline of each WP's main tasks and objectives.

WP number	WP title	Lead beneficiary	Main tasks and objectives	WP leader
WP1	Management	1 - EGP	<ul style="list-style-type: none"> Project administration & interface with EC Deliverables management and quality control 	Alessio De Marzo
WP2	Well Drilling	1 - EGP	<ul style="list-style-type: none"> Material, cement, casing, drilling fluid, BHA Preparation and execution of drilling activities Real time well control Sampling log and well testing Health, safety and environmental aspects 	Luca Semioti
WP3	Special Instruments and Tools	7 - STIFTELSEN SINTEF	<ul style="list-style-type: none"> Design, construction and laboratory testing In situ test at supercritical conditions Geophysical activities: seismic survey, and monitoring Data integration and interpretation Rock and fluid analysis Well log interpretation 	Oyvind Starnes
WP4	Reservoir Characterization	2 - CNR	<ul style="list-style-type: none"> Geophysical activities: seismic survey, and monitoring Data integration and interpretation Rock and fluid analysis Well log interpretation 	Andrea Dini
WP5	Reservoir Modelling	3 - RWTH AACHEN	<ul style="list-style-type: none"> Implementation of the reservoir simulators for the expected conditions In situ test at supercritical conditions 	Henrik Büsing
WP6	Dissemination	2 - CNR	<ul style="list-style-type: none"> Communication Website Project conference 	Adele Manzella



<p>Consortium</p> <p>ENEL Green Power CNR RWTH CAU TU BAF SINTEF PR SINTEF ICT</p>	<p>Project Information</p> <p>START DATE: 01 May 2015 DURATION: 3 years EC CONTRIBUTION: 15'615'955 euro COORDINATOR: Dott. Ruggero Bertani</p>	<p>Main objectives</p> <ol style="list-style-type: none"> 1. Demonstrate safe drilling of a deep super-critical geothermal well 2. Reduce the technical and financial risks of drilling and exploiting deep geothermal wells 3. Reduce pre-drill uncertainty in the exploration of deep geothermal wells 4. Investigate the economic potential of exploiting chemicals and minerals 	<p>Contact</p> <p>For any question on this project, please contact: Dott. Ruggero Bertani (Scientific Coordinator) Innovation and Sustainability Enel Green Power SpA 56122 Pisa, Italy Via Andrea Pisano 120 Q +39 0506185650 F +39 0506185504 M +39 3299506574 e-mail: ruggero.bertani@enel.com; www.eneigreenpower.com</p>
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Figure 2: Project structure page



Figure 3: DESCRAMBLE private part served as VRE access

Dr. Adele Manzella
WP6 leader

A handwritten signature in black ink that reads 'Adele Manzella'.