Sub-seabed CO2 Storage: Impact on Marine Ecosystems (ECO2)

Fact Sheet

Project Information

ECO2
Grant agreement ID: 265847
Project website
Status
Closed project
Start date
1 May 2011
End date
30 April 2015

Funded under
FP7-ENVIRONMENT
Overall budget
€ 13 978 174,12
EU contribution
€ 10 500 000
Coordinated by
HELMHOLTZ ZENTRUM FUR OZEANFORSCHUNG KIEL
Germany

Objective

The ECO2 project sets out to assess the risks associated with the storage of CO2 below the seabed. Carbon Capture and Storage (CCS) is regarded as a key technology for the reduction of CO2 emissions from power plants and other sources at the European and international level. The EU will hence support a selected portfolio of demonstration projects to promote, at industrial scale, the implementation of CCS in Europe. Several of these projects aim to store CO2 below the seabed. However, little is known about the short-term and long-term impacts of CO2 storage on marine ecosystems even though CO2 has been stored sub-seabed in the North Sea (Sleipner) for over 13 years and for one year in the Barents Sea (Snøhvit). Against this background, the proposed ECO2 project will assess the likelihood of leakage and impact of leakage on marine ecosystems. In order to do so ECO2 will study a sub-seabed storage site in operation since 1996 (Sleipner, 90 m water depth), a recently opened site (Snøhvit, 2008, 330 m water depth), and a potential storage site located in the Polish sector of the Baltic Sea (B3 field site, 80 m water depth).
depth) covering the major geological settings to be used for the storage of CO2. Novel monitoring techniques will be applied to detect and quantify the fluxes of formation fluids, natural gas, and CO2 from storage sites and to develop appropriate and effective monitoring strategies. Field work at storage sites will be supported by modelling and laboratory experiments and complemented by process and monitoring studies at natural CO2 seeps that serve as analogues for potential CO2 leaks at storage sites. ECO2 will also investigate the perception of marine CCS in the public and develop effective means to disseminate the project results to stakeholders and policymakers. Finally, a best practice guide for the management of sub-seabed CO2 storage sites will be developed applying the precautionary principle and valuing the costs for monitoring and remediation.

Field of science
/natural sciences/biological sciences/ ecology/ecosystems

Programme(s)

Topic(s)

Call for proposal
FP7-OCEAN-2010

Funding Scheme
CP-IP - Large-scale integrating project

Coordinator

HELMHOLTZ ZENTRUM FUR OZEANFORSCHUNG KIEL

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<th>Activity type</th>
<th>EU contribution</th>
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<td>Research Organisations</td>
<td>€ 2 290 519,28</td>
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Address
Wischhofstrasse 1-3
24148 Kiel
Germany

Website  Contact the organisation
Administrative Contact
Ursula Frank-Scholz (Mrs.)
<table>
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<tr>
<th>Participant Name</th>
<th>Address</th>
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<td><strong>INSTITUT FUER OSTSEEFORSCHUNG WARNEMUENDE AN DER UNIVERSITAET ROSTOCK</strong></td>
<td>15 Seestrasse, 18119 Rostock</td>
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<td><strong>LEIBNIZ-INSTITUT FUER MEERESWISSENSCHAFTEN AN DER UNIVERSITAET KIEL</strong></td>
<td>Wischhofstrasse 1-3, 24148 Kiel</td>
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<td><strong>PLYMOUTH MARINE LABORATORY LIMITED</strong></td>
<td>Prospect Place West Hoe, PL1 3DH Plymouth</td>
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NATURAL ENVIRONMENT RESEARCH COUNCIL
United Kingdom
€ 826 660,50

UNIVERSITETET I BERGEN
Norway
€ 1 065 036

MAX-PLANCK-GESELLSCHAFT ZUR FORDERUNG DER WISSENSCHAFTEN EV
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€ 811 376,32
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Heike Wojack (Ms.)

UNIVERSITAT TRIER
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Activity type
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ALFRED-WEGENER-INSTITUT HELMHOLTZ-ZENTRUM FUR POLAR- UND MEERESFORSCHUNG
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<td>Leibniz-Institut für Ostseeforschung Warnemünde Stiftung</td>
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<td>Università degli Studi di Roma La Sapienza</td>
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<td>€ 21,000</td>
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<td>DNV GL AS</td>
<td>Norway</td>
<td>€ 333,361</td>
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UNIVERSITY OF SOUTHAMPTON
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<td>Administrative Contact</td>
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<td>United Kingdom</td>
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<td>Sweden</td>
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<td>Anna Van Buerenplein 1</td>
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</table>
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Activity type
Private for-profit entities
(excluding Higher or Secondary Education Establishments)

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Last update: 2 August 2019
Record number: 98756

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