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

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NORSK INSTITUTT FOR VANNFORSKNING
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EU contribution
€ 891 370,50
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| Gaustadalleen 21
0349 Oslo                  | Research Organisations |
| Contact the organisation     |                        |
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**NATURAL ENVIRONMENT RESEARCH COUNCIL**

- **United Kingdom**
- **EU contribution**
  - **€ 826 660,50**

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Avenue
SN2 1EU Swindon Wiltshire     | Research Organisations |
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**UNIVERSITETET I BERGEN**

- **Norway**
- **EU contribution**
  - **€ 1 065 036**

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| Museplassen 1
5020 Bergen                 | Higher or Secondary
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| Inger Gjesdahl (Ms.)         |                        |

**MAX-PLANCK-GESELLSCHAFT ZUR FORDERUNG DER WISSENSCHAFTEN EV**

- **Germany**
- **EU contribution**
  - **€ 811 376,32**

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| Hofgartenstrasse 8
80539 Munich                  | Other                  |
UNIVERSITAT TRIER

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€ 58 480,20

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**GOETEBORGS UNIVERSITET**  
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€ 155 000,40  

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**Administrative Contact**  
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**NEDERLANDSE ORGANISATIE VOOR TOEGEPAST NATUURWETENSCHAPPELIJK ONDERZOEK TNO**  
Netherlands  
EU contribution  
€ 202 858,50
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Last update: 2 August 2019
Record number: 98756

Permalink: https://cordis.europa.eu/project/id/265847/

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