Introducing the CO₂ Storage Data Consortium

A new international collaboration for sharing reference datasets from CO₂ storage projects such as Sleipner, Snøhvit and the Illinois Basin—Decatur project.

The CO₂ Storage Data Consortium (CSDC) aims at increased efficiency of building capacity, confidence and competence in CO₂ storage. The idea of the initiative emerged in meetings between international researchers during 2015. It underpins the CSLF Large-Scale Saline Storage Project Network proposed to leverage international saline storage projects that can share best practices, operational experience, and lessons learned to advance CCS deployment.

Imaging the Sleipner CO₂ plume (Image courtesy of Statoil ASA).
What is the CO₂ Storage Data Consortium (CSDC)?

An open, international network developing a common platform for sharing datasets from pioneering CO₂ storage projects. CSDC is focused on CO₂ storage datasets designed to:

- Accelerate learning
- Build capacity
- Reduce costs
- Minimize uncertainties

CSDC promotes sharing of datasets on site geology, well data, geophysical monitoring data, and reservoir data and models. Access to properly curated and well-understood datasets can accelerate new development of site characterization methods, reservoir simulation, and monitoring technologies.

Use of common datasets will be beneficial for comparing similar methods, it encourages complementary research based on alternative methods and stimulates collaboration across organisational and national borders. Also, standard procedures for processing data will enable comparison of data from similar sites.
What is provided?

The CSDC consortium will manage the datasets on behalf of data owners, administrate the access, and facilitate dissemination. Datasets will be subject to terms of use and proper acknowledgements. Participants in CSDC may be registered as users, data providers, sponsors, or observers.

No research funds are offered by the CSDC consortium, which will only cover management of the datasets. However, the consortium will facilitate international workshops focused around use of the datasets and the related progress with improved understanding of the key CO$_2$-storage uncertainties and challenges.

CSDC Project Status

After a successful pre-project to develop this concept (2016-2017), the Steering Committee concluded on a way forward involving:

- 3-year development phase (2017-2020)
- Initial funding from Norway and USA
- Open for new national partners to join

Key findings from the 2016 Launch meeting and international survey are that CSDC should:

- Provide simple measures for sharing CO$_2$ storage datasets, lowering the threshold for data owners to share with the CCS community
- Make it easy to find, access and use well-documented datasets from pioneering CO$_2$ storage projects relevant for addressing technology gaps and reducing uncertainty
- Stimulate sharing of results from research using the datasets
- Promote networking and research collaborations

Way forward

If you want to know more please get in touch with project secretariat:

csdc-secretariat@sintef.no
The current CSDC steering committee comprises:

- Sallie Greenberg, University of Illinois, USA
- Philip Ringrose, Statoil/NTNU, Norway
- Darin Damiani, Department of Energy, USA
- Tim Dixon, IEAGHG, UK
- James Craig, IEAGHG, UK
- Svein Eggen, Gassnova, Norway
- Odd Andersen, SINTEF, Norway
- Grethe Tangen, SINTEF/NCCS, Norway

Spring 2016, the Norway-US bilateral CO₂ Storage Working Group agreed to establish the CO₂ Storage Data Consortium (CSDC) to stimulate the exchange of high quality and well-curated datasets. To secure the long-term operation of a platform for data sharing, the ambition is to expand with new participants and more countries.

For more information, contact the CSDC secretariat:
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