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Consensus: Carbon Capture, Usage and Storage

Dear Consensus community,

The assembly of the CO₂ conversion unit is almost finished and ready for commissioning.

A team of COVAL, DTU, Wetsus and NEC colleagues met early 2023 in the facility of COVAL to see, touch and feel this important piece of the demonstration unit. In a comprehensive video-vlog, Rien van Haperen, director of Coval, explains the unit in more detail while standing inside it (see below).

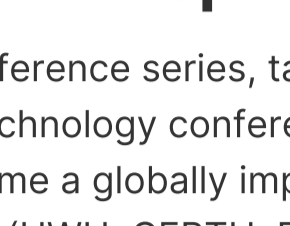
Next to our demonstration unit, the project is materializing rapidly in other ways as well. The second community meeting in Greece was held with over 50 interested participants!

Lastly, a number of publications are prepared to be published and presented during several upcoming conferences.

Enjoy reading our updates!

On behalf of the Consensus team
Dirk Koppert, Project Manager

News

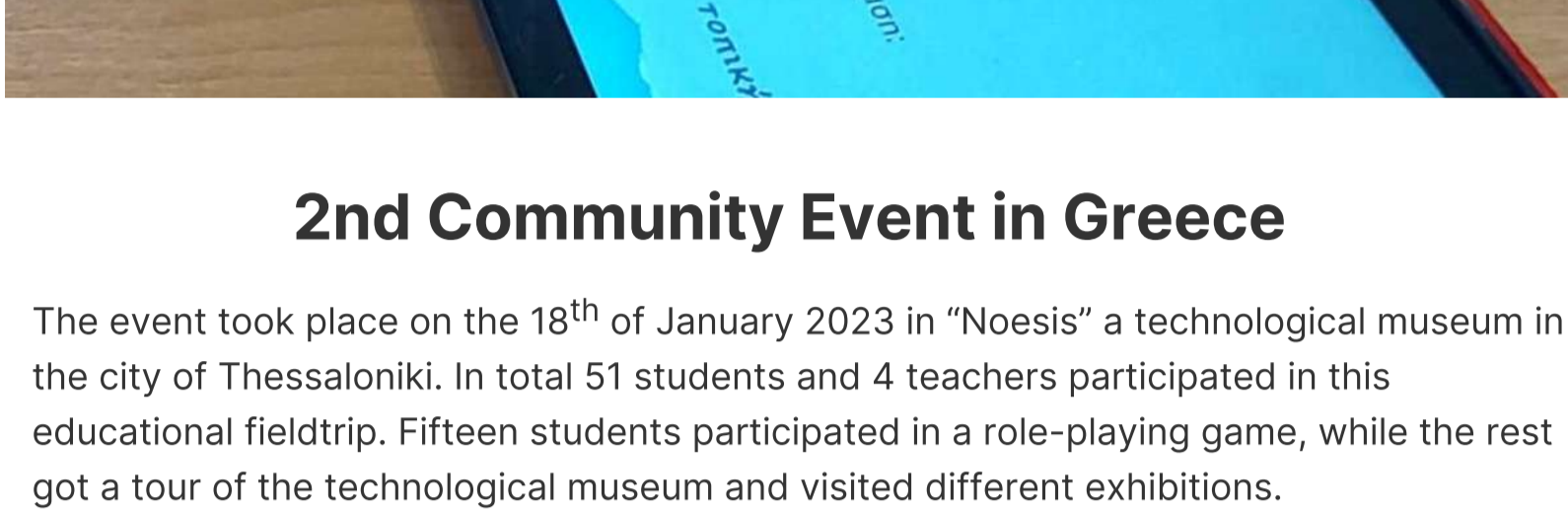


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The 12th Trondheim Conference on CO₂ Capture, Transport and Storage

The bi-annual Trondheim CCS Conference series, taking place from 19 to 21 June 2023, is a leading scientific CCS technology conference. Since its inception in 2003, the conference has developed to become a globally important meeting place for over 400 CCS experts. Consensus partners (HWU, CERTH, DTU and Wetsus) will present two abstracts on the technical part: One on process modelling and another one on experimental results in the lab for process optimization.

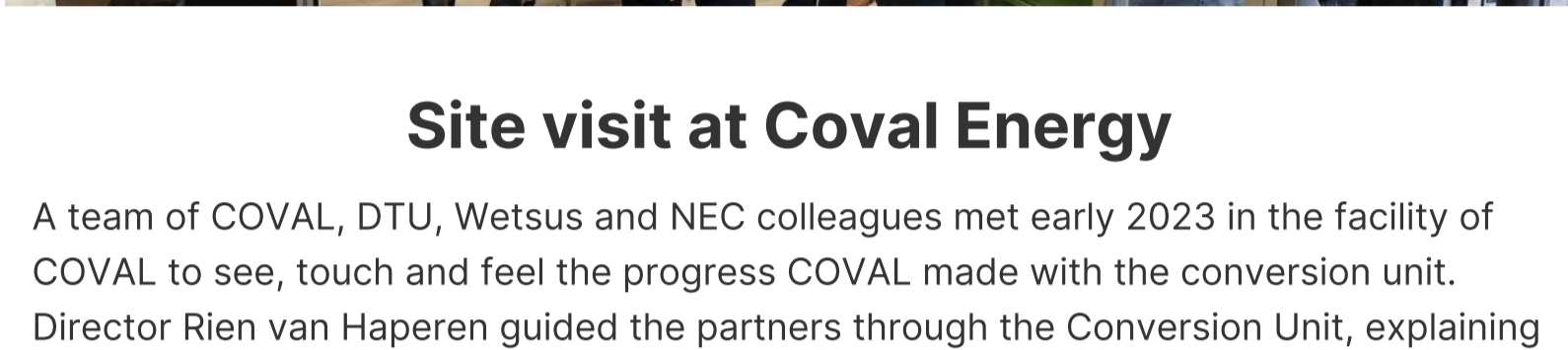
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2nd Community Event in Greece

The event took place on the 18th of January 2023 in "Noesis" a technological museum in the city of Thessaloniki. In total 51 students and 4 teachers participated in this educational fieldtrip. Fifteen students participated in a role-playing game, while the rest got a tour of the technological museum and visited different exhibitions.

[Read more](#)

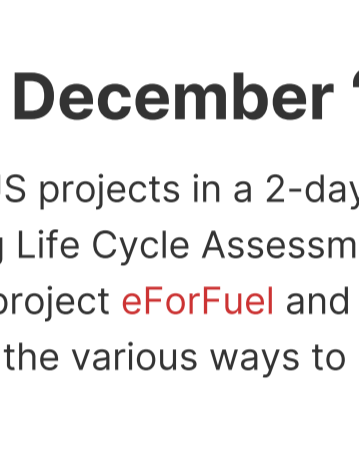


Site visit at Coval Energy

A team of COVAL, DTU, Wetsus and NEC colleagues met early 2023 in the facility of COVAL to see, touch and feel the progress COVAL made with the conversion unit. Director Rien van Haperen guided the partners through the Conversion Unit, explaining the different process-steps in the modularized conversion unit, materials used and choices made. The visit was of particular interest for the teams of DTU and WETSUS, as they are also in the process of building their Consensus demonstration units. Time was spent on discussing interconnections, fine-tuning of planning and overarching topics. COVAL aims at finishing their unit and first pressurized test in the first half of 2023. Final commissioning and transport to the first demonstration site is scheduled for after the summer.

LCA to CCUS & alternative fuels workshop

A common methodological approach for LCA application in European projects



LCA Workshop - December '22

Consensus joined other Horizon funded CCUS projects in a 2-day **LCA to CCUS workshop** to discuss the ins and outs of doing Life Cycle Assessment studies of CCUS solutions. This workshop was initiated by the project **eForFuel** and with input from Consensus and other projects we discussed the various ways to look at LCA studies.

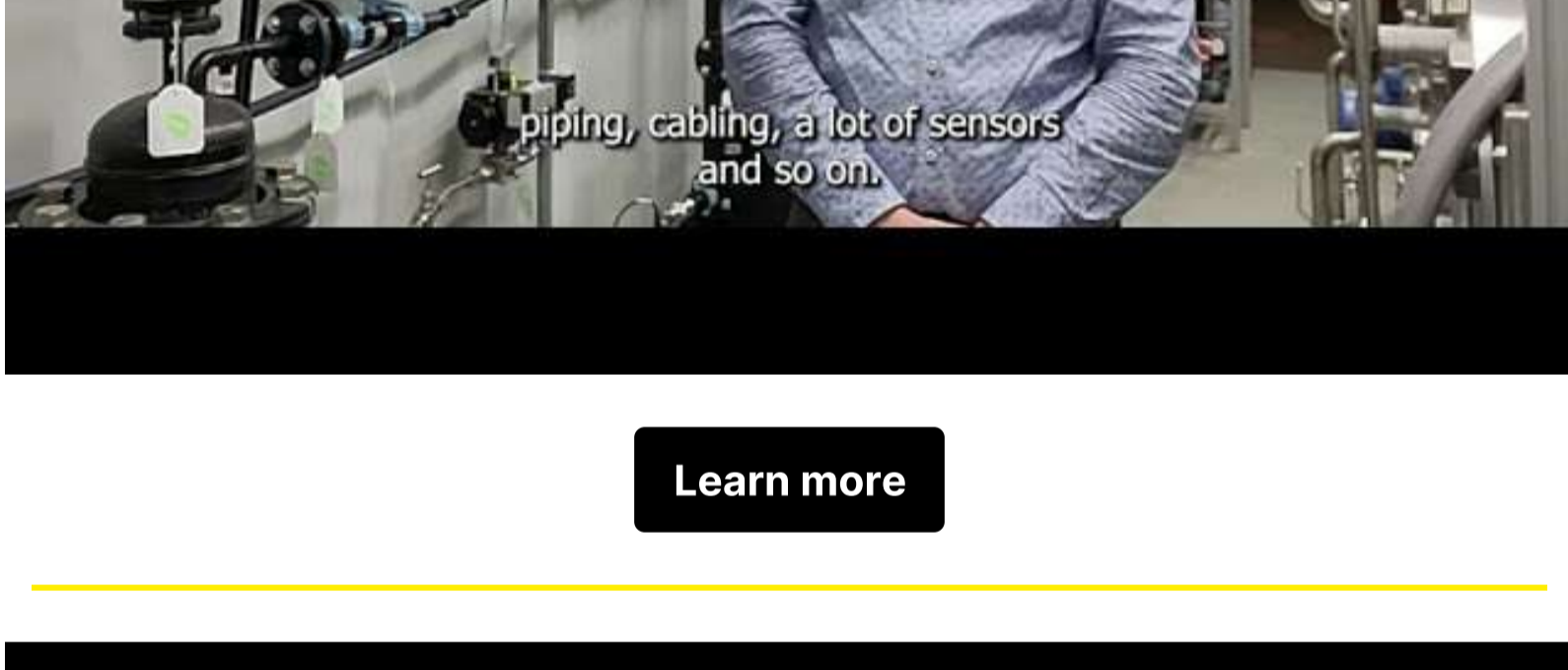
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Spotlight on WP 2



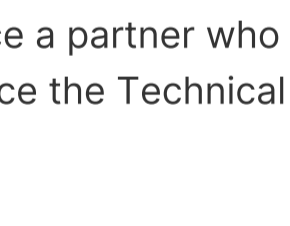
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In this short video, Rien van Haperen, one of our workpackage leaders from Coval Technology, shares with us the initial laboratory set up as well as the scale up of the demonstration unit in a 40 ft container to convert CO₂ to valuable products.



[Learn more](#)

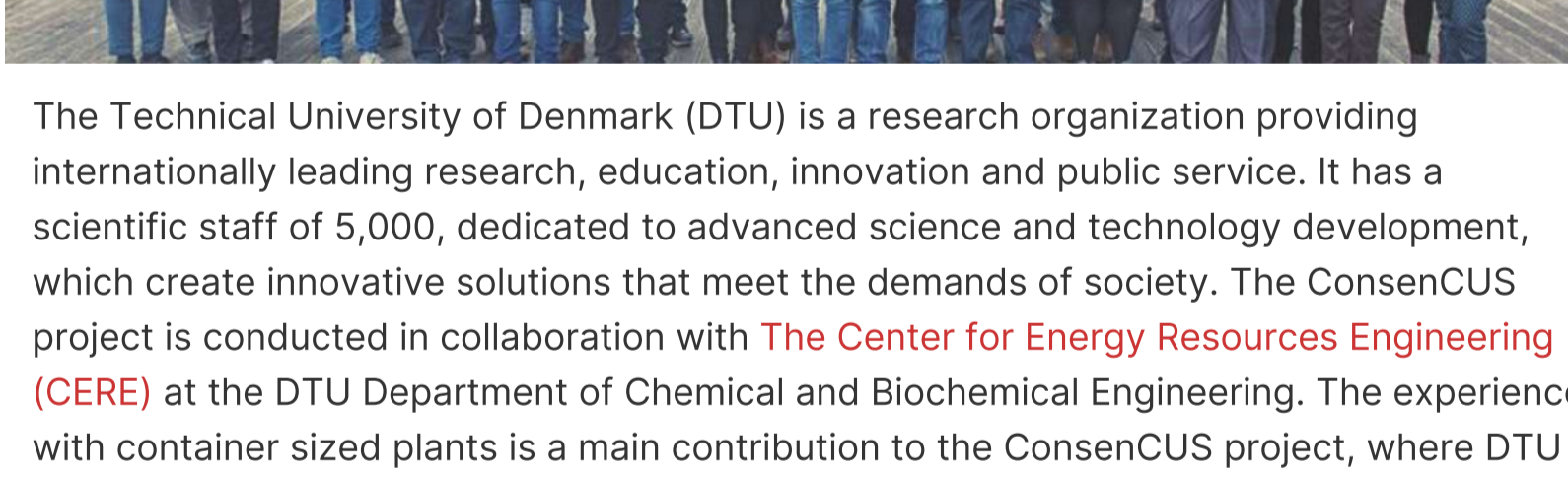
Introducing the partners



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In each newsletter, we will introduce a partner who is associated with this research project. This newsletter we introduce the Technical University of Denmark (DTU) and Robert Gordon University (RGU).

Technical University of Denmark (DTU)



The Technical University of Denmark (DTU) is a research organization providing internationally leading research, education, innovation and public service. It has a scientific staff of 5,000, dedicated to advanced science and technology development, which create innovative solutions that meet the demands of society. The Consensus project is conducted in collaboration with **The Center for Energy Resources Engineering (CERE)** at the DTU Department of Chemical and Biochemical Engineering. The experience with container sized plants is a main contribution to the Consensus project, where DTU will design, construct, install and operate a demonstration plant at industrial sites.

[Read more](#)

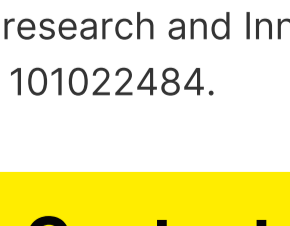
Robert Gordon University (RGU)



Robert Gordon University provides industry-led undergraduate and postgraduate courses leading to highly relevant awards and degrees. The emphasis of our research is on providing innovative and practical solutions to industrial problems, with particularly strong industry-focused research in the oil & gas and renewable/sustainable energy sectors. Within the Consensus project, the research team at Robert Gordon University is leading Work Package 7 titled "Societal and Environmental Assessment". The research team is led by Prof. Zoe Morrison whose research expertise and interests focus on the implications of change for individuals and communities in areas such as healthcare, defence, and climate change mitigation. The two research fellows working together with Prof. Morrison are Dr. Jacob Nielsen and Dr. Kostas Stavrianakis. They both bring in interdisciplinary expertise through the lenses of anthropology, social psychology, sociology, and education. Their role in the Consensus project is to explore and assess the societal implications of Carbon Capture Utilisation and Storage projects (CCUS).

[Read more](#)

Deliverables



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Are you interested in our results? [Click here](#) to download our first public deliverable



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