

PRESS RELEASE

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Bigadan inaugurates one of the world's first complete value chains for permanent storage of biogenic CO₂ from biogas

CO₂ from Danish biogas production can now be captured, transported, and permanently stored in the North Sea through a fully integrated commercial value chain — an important step in the development of negative emissions in Europe.

On 20 May, Bigadan will inaugurate a new CO₂ facility at Kalundborg Bioenergy, marking an international milestone in climate and energy technology. With this facility, one of the world's first complete and commercial value chains for the capture, transport, and permanent storage of biogenic CO₂ from biogas becomes a reality.

At the facility, CO₂ is captured from biogas production based on agricultural and industrial residues. The CO₂ is then transferred and transported for permanent storage in the Danish sector of the North Sea as part of Project Greensand. This directly links Danish biogas production with permanent offshore CO₂ storage in a system that may have significance far beyond Denmark's borders.

“We talk a lot about green transition and negative emissions. Now we are actually doing it. With the facility in Kalundborg, we are establishing a real and commercial value chain where biogenic CO₂ from biogas is not only captured but also transported and permanently stored underground. This is no longer a pilot project — it is the beginning of a new industry,” says Henrik Iversen, CCO of Bigadan.

The Kalundborg facility is expected to capture 27,000 tonnes of CO₂ annually. Together with Bigadan's existing CO₂ facility in Horsens and the upcoming facility in Herning, the ambition is to establish CO₂ capture at all of the company's Danish biogas plants. Toward 2030, Bigadan expects to capture up to 200,000 tonnes of CO₂ annually — equivalent to the yearly emissions of around 100,000 petrol cars.

CO₂ storage in the North Sea is increasingly viewed as a crucial technology in Europe's green transition, and Denmark has the potential to become a central European hub for permanent CO₂ storage. With the project in Kalundborg, this development is now becoming tangible.

The inauguration will take place on Wednesday, 20 May at Kalundborg Bioenergy, where guests will have the opportunity to tour the facility, learn more about the technology, and meet the project partners. Speakers include Søren Pind, Chairman of Biogas Denmark, and Martin Damm, Mayor of Kalundborg.

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Further information can be found in the attached fact sheet.