PRESS RELEASE

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€19 million in EU funding marks first step towards full-scale e-methane production in Denmark

Danish biogas company Bigadan and technology company Pura Futura are behind Nysted CCUS ApS, which has been selected for €19 million in funding from the EU Innovation Fund. The project aims to establish a full-scale e-methane production facility at Bigadan's existing biogas plant in Nysted, Denmark, bringing together biogas production, biogenic CO_2, renewable hydrogen and Europe's existing gas infrastructure.

The planned facility is expected to have a production capacity of approximately 10 million Nm^3 of e-methane per year. For Bigadan, the project opens a new opportunity to use the biogenic CO_2 already captured and liquefied at three of its Danish plants and to enter the European market for e-methane and RFNO fuels.

"Europe will need renewable fuels for sectors where direct electrification is difficult, and for us, exploring the e-methane market simply makes very good sense. We already have the biogas production, the biogenic CO_2 and access to the gas infrastructure," says Henrik Iversen, CCO at Bigadan.

Under EU rules, e-methane can qualify as a Renewable Fuel of Non-Biological Origin, or RFNBO. This makes it particularly relevant in a European market where demand for renewable fuels is increasing, driven in part by new requirements in sectors such as maritime transport.

One of the major strengths of e-methane is that much of what is needed is already in place. The gas can be distributed through Europe's existing gas infrastructure, while biogas plants provide the biogenic CO_2 needed for production.

The technology behind the project is biological methanation, where biogenic CO_2 is combined with renewable hydrogen and converted into e-methane. The technology has already been demonstrated, and with Nysted the ambition is to take it to full scale, with an expected production of approximately 10 million Nm^3 of e-methane per year.

Next steps

The project has been selected for €19 million in funding under the EU Innovation Fund but the final Grant Agreement is not yet in place. The project will now enter the Grant Preparation process, where the remaining technical, financial, legal and administrative requirements must be completed. A final agreement is expected in spring 2027, after which a final investment decision will be made.

Facts | Nysted CCUS

Project: Nysted CCUS ApS, owned 50/50 by Bigadan and Pura Futura
Location: Bigadan's existing biogas plant in Nysted, Denmark
Technology: Electrolysis and biological methanation, combining renewable hydrogen with biogenic CO_2 to produce e-methane
Production: Approx. 10 million Nm^3 of e-methane per year
EU funding: Selected for approximately €19 million from the EU Innovation Fund
Status: Grant Preparation. Final investment decision not yet made