

### **Ørsted begins construction of Denmark's first carbon capture project**

Ørsted is embarking on the construction of two carbon capture (CCS) facilities designed to capture and store carbon emissions from the woodchip-fired Asnæs Power Station in Kalundborg and the straw-fired unit at Avedøre Power Station in Greater Copenhagen. This project represents Denmark's first full-scale carbon capture project and signals the dawn of a new era for carbon capture and storage in the country.

It is expected that the carbon capture project, which was awarded a 20-year contract by the Danish Energy Agency in May 2023, will capture 430,000 tonnes of biogenic CO<sub>2</sub> annually from the two combined heat and power plants starting from early 2026. The capture and storage of carbon from straw- and woodchip-fired power stations remove CO<sub>2</sub> from the atmosphere, making a substantial contribution to Denmark's climate targets for 2025 and 2030.

#### **Ole Thomsen, Senior Vice President and Head of Ørsted's Bioenergy business, says:**

"We're proud to initiate the construction of Denmark's first full-scale carbon capture project. To combat climate change, we must implement various types of green solutions, and this project is one of the initiatives that will play a pivotal role in our efforts. We look forward to collaborating with our partners, the municipalities, and our stakeholders to ensure the success of this project and achieve our shared climate goals."

Lars Aagaard, Danish Minister of Climate, Energy & Utilities, Mads Nipper, Ørsted's CEO, and Søren Friis Trebbien and Martin Damm, mayors of the two hosting municipalities, will participate in the groundbreaking ceremony.

#### **Martin Damm, Mayor of Kalundborg Municipality, says:**

"I'm delighted to be part of kick-starting the Danish CCS adventure, a significant step towards meeting Denmark's climate goals that will positively impact the local community in Kalundborg. We already have a robust business environment in Kalundborg, and I'm confident that the carbon capture project will boost the green synergies we already observe, placing Kalundborg firmly on the map."

#### **Søren Friis Trebbien, Mayor of Hvidovre Municipality, says:**

"It's positive that Hvidovre's green business profile is now strengthened, and I look forward to following the carbon capture project from the side lines. In Hvidovre, we already have some of the business and educational competences needed to support the positive impact of the carbon capture project on the local community, making this an excellent match."

Ørsted will host a groundbreaking ceremony on 4 December at Avedøre Power Station to celebrate the commencement of construction of Denmark's first full-scale carbon capture project.

**Ørsted**

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**Facts about the 'Ørsted Kalundborg CO<sub>2</sub> Hub' project:**

- The 'Ørsted Kalundborg CO<sub>2</sub> Hub' project aims to capture and store 430,000 tons of CO<sub>2</sub> annually from early 2026, equivalent to the annual carbon emissions from approximately 200,000 petrol-powered cars.
- Ørsted will capture 150,000 tonnes of biogenic CO<sub>2</sub> per year from the straw-fired unit at Avedøre Power Station. The CO<sub>2</sub> will initially be transported by lorry to Asnæs Power Station until a shared pipeline infrastructure across Zealand has been established.
- The straw-fired unit at Avedøre Power Station converts locally sourced straw into electricity and district heating. The straw used is a by-product of agriculture.
- Ørsted will capture 280,000 tonnes of biogenic CO<sub>2</sub> per year from the wood chip-fired unit at Asnæs Power Station, which will also function as a CO<sub>2</sub> hub, handling and shipping biogenic carbon from both the Avedøre and Asnæs combined heat and power plants to the Northern Lights storage reservoir in the Norwegian part of the North Sea.
- The wood chip-fired unit at Asnæs Power Station converts wood chips, primarily sourced from the Baltics, into electricity, district heating, and process steam for the local industry. The wood chips come from sustainably managed production forests and consist of surplus wood from sawmills or residues from trimming or crooked trees.
- Read more about the project here: [Carbon Capture & Storage \(CCS\) | Ørsted](#)

For further information, please contact:

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**About Ørsted**

The Ørsted vision is a world that runs entirely on green energy. Ørsted develops, constructs, and operates offshore and onshore wind farms, solar farms, energy storage facilities, renewable hydrogen and green fuels facilities, and bioenergy plants. Ørsted is recognised on the CDP Climate Change A List as a global leader on climate action and was the first energy company in the world to have its science-based net-zero emissions target validated by the Science Based Targets initiative (SBTi).

Headquartered in Denmark, Ørsted employs approx. 8,700 people.

Ørsted's shares are listed on Nasdaq Copenhagen (Orsted). In 2022, the group's revenue was DKK 132.3 billion (EUR 17.8 billion). Visit [orsted.com](https://orsted.com) or follow us on [Facebook](#), [LinkedIn](#), Instagram, and [X](#).