News from Ørsted

Ørsted
Kraftværksvej 53
Skærbæk
DK-7000 Fredericia

www.orsted.com
Company registration no.
(CVR no.) 36 21 37 28

14 November 2025

Ørsted to commercialise its state-of-the-art low-noise technology Osonic: Signs first agreement with Luxcara

Today, Ørsted announces the establishment of its new technology platform Osonic, having signed a preferred supplier agreement with leading German energy infrastructure asset manager Luxcara.

This is the first preferred supplier agreement for Osonic, Ørsted's low-noise jetting-based monopile installation method, which also marks the first step towards commercial deployment of the technology. The installation method delivers a significant reduction in underwater noise, achieving levels just above the background noise in the German Bight, while also enabling cost savings. It is intended to be used for offshore wind turbine foundations across Luxcara's offshore wind portfolio in Germany.

Osonic is a low-noise alternative to conventional pile-driving. The technology has been developed and matured by Ørsted over the past several years and was recently successfully deployed at Ørsted's Gode Wind 3 Offshore Wind Farm in Germany, which entered into operation earlier this year.

With the creation of Osonic as a dedicated platform, Ørsted is moving the technology into a commercial phase, offering licensing of the technology and related services to third-party developers for European offshore wind projects. The creation of the Osonic platform aligns with Ørsted's focused approach to capital allocation, as the technology will strengthen the value creation potential of future offshore wind projects and improve the competitiveness of offshore wind as an energy source.

Patrick Harnett, Executive Vice President and Chief Construction Officer at Ørsted, said:

"By reaching an agreement with Luxcara, we're taking Osonic from concept to commercial offering, which demonstrates Ørsted's strong track record of innovation as well as Osonic's potential. We're seeing increased interest from offshore wind developers across European key markets, and with this landmark agreement, we're laying the groundwork for broader adoption."

He added:

"As a leading developer of offshore wind, we're proud to extend our technology services to third parties. This supports the further build-out of offshore wind, beyond our own 8.1 GW offshore wind construction

portfolio, and further enables the deployment of offshore wind as an affordable, reliable, and secure resource."

Holger Matthiesen, Director of Offshore Wind & Green Hydrogen at Luxcara, said:

"At Luxcara, we pursue a responsible and sustainable offshore strategy, which has enabled us to succeed in tenders that prioritise qualitative criteria. Already in 2022, Luxcara started looking into different low-noise offshore installation methods. We are pleased to now deepen the collaboration with Ørsted and look forward to preparing the next steps for the implementation of their low-noise installation technology, which has already been successfully deployed in the German North Sea. Its proven performance under conditions comparable to our projects was a decisive factor for us to consider the innovative technology."

Ørsted is to license the technology and, under the preferred supplier agreement, will also act as an engineering, procurement, and construction consultant to Luxcara for the deployment of the technology.

About Osonic:

- Osonic is a patent-pending jetting technology that reduces the soil's resistance to penetration, enabling foundations to sink more quietly into the seabed with minimal impact on marine life. This allows for replacing conventional pile-driving.

- The implementation of the Osonic installation method at Ørsted's Gode Wind 3 Offshore Wind Farm resulted in a 99 % decrease in underwater noise levels relative to the most commonly used installation method. Noise levels were reduced significantly to a level just marginally above the ambient noise found in the German Bight in the North Sea.

- In October 2025, Ørsted's Osonic technology was awarded the prestigious German Sustainability Award in the product category. In its reasoning, the jury highlighted that this innovation "shows how the expansion of renewable energy and the protection of biodiversity can go hand in hand, setting new benchmarks as a potential standard for sustainable offshore wind projects worldwide."

Read more at osonic.tech

Photos and video of Osonic are available on the following link for members of the media: Osonic media package

At the cutting edge of offshore wind innovation
The Osonic technology is a testimony to Ørsted's approach to innovation, which has been core to Ørsted's business from the very beginning, helping to take offshore wind power from a demonstration concept to a large-scale energy technology.

Advances in technology have already brought down the costs of renewable energy, making it cost-competitive with fossil fuels, and Ørsted will continue to harness cutting-edge technology to make green energy more affordable, reliable, efficient, and sustainable across the value chain. Recently, Ørsted has deployed an autonomous vessel for offshore surveying, and the company is using large drones to transport cargo to offshore wind turbines.

Ørsted has in-house R&D capabilities led by a team with deep science and engineering expertise, overseeing many different projects, and the company has partnered with over 50 universities and research institutes, helping to bring the best ideas from the lab to the field.

For further information, please contact:

Ørsted Global Media Relations
Michael Korsgaard
+45 99 55 94 25
mikon@orsted.com

Luxcara Marketing & Communications
Lisa Zillessen
press@luxcara.com

About Ørsted
Ørsted is a global leader in developing, constructing, and operating offshore wind farms, with a core focus on Europe. Backed by more than 30 years of experience in offshore wind, Ørsted has 10.2 GW of installed offshore capacity and 8.1 GW under construction. Ørsted's total installed renewable energy capacity spanning Europe, Asia Pacific and North America exceeds 18 GW across a portfolio that also includes onshore wind, solar power, energy storage, bioenergy plants, and energy trading. Widely recognised as a global sustainability leader, Ørsted is guided by its vision of a world that runs entirely on green energy. Headquartered in Denmark, Ørsted employs approximately 8,000 people. Ørsted's shares are listed on Nasdaq Copenhagen (Orsted). In 2024, the group's operating profit excluding new partnerships and cancellation fees was DKK 24.8 billion (EUR 3.3 billion). Visit orsted.com or follow us on LinkedIn and Instagram.

About Luxcara

Luxcara is an independent asset manager offering equity and debt investment opportunities to international investors in the global energy transition market. The Hamburg-based company acquires, structures, finances and operates new generation infrastructure projects with a long-term, buy-build-operate approach for the clean energy transition. Luxcara's longstanding focus on unsubsidized markets has made the company one of Europe's most prominent investors in projects with long-term power purchase agreements. The company's portfolio includes clean energy infrastructure across Europe. Their track record, dating back to 2009, makes Luxcara one of the continent's most experienced asset managers for clean energy investments.

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