

FOR IMMEDIATE RELEASE

Windpark Zeewolde and Elestor tackle grid congestion with long-duration storage

ZEEWOLDE | ARNHEM, 7 July 2026 – Windpark Zeewolde and Elestor have entered into a partnership for the phased deployment of a large-scale hydrogen-iron flow battery at the largest onshore wind farm in the Netherlands. The planned energy storage system will have a power capacity of 20 megawatts, a storage duration of 10 to 40 hours, and an overall capacity of 200 to 800 megawatt-hours.

The battery will be directly connected to the closed distribution system, Vogelweg High Voltage Station of which Windpark Zeewolde is part. This will enable generated wind energy to be used more effectively, reduce peak loads on the electricity grid, and optimize existing grid capacity.

From wind farm to energy hub

Windpark Zeewolde is fully owned by the local community. More than 200 farmers, residents, and entrepreneurs from the Zeewolde area are involved in the wind farm. With the addition of long-duration energy storage, the wind farm - which will soon continue be renamed Energiehub Zeewolde - is taking the next step in its development into an energy hub, where renewable generation, storage, and flexible use are combined more intelligently.

Long-duration energy storage makes it possible to store wind energy when generation is high and use it later when demand increases or when there is more capacity available on the grid. This can help reduce curtailment, which is the temporary reduction or shutdown of renewable energy production.

Phased approach

The project will be implemented in phases. Next year, Elestor will deploy a pre-commercial unit to demonstrate the performance and market readiness of its hydrogen-iron flow battery technology in a real-world use case. This will be followed by a commercially ready production battery. The planned storage system of 20 megawatts, with a storage duration of 10 to 40 hours, is expected to be reached in 2031. This phased approach makes it possible to gain technical, operational, and commercial experience, while reducing risks.

For Elestor, this is an important step towards the commercial application of its technology. The planned installation demonstrates how long-duration energy storage can be applied in combination with large-scale wind production. Depending on the final configuration and development, this will be among the larger flow battery projects in Europe.

“Windpark Zeewolde does not only want to generate renewable electricity but also use it more intelligently. With long-duration energy storage, we are taking an important step towards the energy system of the future.”

Maarten de Keijzer, Managing Director, Windpark Zeewolde

“For Elestor, this marks a major milestone in scaling up our technology. The combination of large-scale wind production and long-duration energy storage shows how we can bring more flexibility, security of supply, and renewable energy into the system.”

Hylke van Bennekom, CEO, Elestor

Elestor’s hydrogen-iron flow battery technology is designed for long-duration performance and frequent cycling using abundantly available materials such as hydrogen and iron. Through this partnership, Windpark Zeewolde and Elestor will demonstrate how local renewable energy and long-duration storage can jointly contribute to a more flexible and reliable energy system.

For more information, please contact Hylke van Bennekom (CEO, Elestor)

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About Windpark Zeewolde

Windpark Zeewolde B.V. is owned by a unique partnership of more than 200 farmers, residents, and entrepreneurs from the area of Zeewolde. Together, they form the largest farmer-citizen wind collective in Europe. With a capacity of 320 MW, Windpark Zeewolde is the largest onshore wind farm in the Netherlands. It consists of 83 modern wind turbines and supplies green electricity equivalent to the annual consumption of 300,000 households. More information: www.windparkzeewolde.nl.

About Elestor

Elestor B.V. develops long-duration energy storage systems based on hydrogen-iron flow battery technology. The technology is designed for large-scale storage of renewable electricity and uses abundantly available materials. Elestor focuses on applications where long-duration, safety, and cost-effective energy storage are essential for the energy transition. More information: www.elestor.com.

Attachments: Photos on location w/ Jesper Neeleman (Project Manager H2Park), Maarten de Keijzer (Directeur Windpark Zeewolde), Hylke van Bennekom (CEO Elestor), Floris van Dijk (Business Development Manager Elestor)