

## Amsterdam manufacturing energy storage

This unique project is the result of collaboration between Nissan, Eaton, BAM, The Mobility House and the Johan Cruijff ArenA, supported by the Amsterdam Climate and Energy Fund (AKEF) and Interreg.

The 3 megawatt storage system provides a more reliable and efficient energy supply and usage for the stadium, its visitors, neighbors and the Dutch energy grid. Combining Eaton power conversion units and the equivalent of 148 Nissan LEAF batteries, the energy storage system not only enables a more sustainable energy system, it also creates a circular economy for electric vehicle batteries.

**Flexible storage capacity** The energy storage system plays an important role in balancing supply and demand of energy in the Johan Cruijff ArenA. The storage system has a total capacity of 3 megawatt, enough to power several thousand households. This capacity also means that the energy produced by the 4,200 solar panels on the roof of the ArenA can also be stored and used optimally. The energy storage system will provide back-up power, reducing the use of diesel generators, and provide relief to the energy grid by flattening the peaks that occur during concerts.

This summer, construction will start on the GIGA Giraffe battery on Westhavenweg, which will be connected to Liander's Sextantweg substation. All signals for construction are green. There is a connection agreement with Liander, a permit with the municipality, a long-term lease agreement with the Port of Amsterdam and the financing has also been completely completed.

The GIGA Giraffe is a 10 MW and 47 MWh storage project and enables the electricity network to store the energy peaks during sunny hours and keep the energy system in balance with a growing share of unpredictable but sustainable energy generation. What is special is that this battery can charge or discharge for four hours, making it suitable for participating in the Dutch day-ahead and intraday electricity markets.

GIGA Storage realizes large-scale energy storage. Investments are being made in projects for both optimization of energy supply and grid stability. GIGA Storage aims to become a key player in energy storage in Europe, in order to fully utilize sustainably generated energy. Energy storage is the missing link in the transition to a world powered exclusively by renewable and clean energy.

Amsterdam, February 28, 2023 - Electriq, an end-to-end safe hydrogen solution provider, and Zenith Energy Terminals, a global energy storage and handling company, announced today a partnership to build the world's first manufacturing plant of Electriq Powder - a solid hydrogen carrier - at the Port of Amsterdam.

Electriq Powder acts like daily used detergent powder - simplifying storage, transport, and use of hydrogen in last mile, off-grid and backup applications. Electriq Powder features superior safety and energy density,

compared to compressed and liquified hydrogen. The release of hydrogen from the powder and conversion into electricity is done through a proprietary, compact release unit.

The partners have signed a Memorandum of Understanding, to construct Electriq's first powder plant at Zenith Energy's terminal in Amsterdam. The agreement includes the production of green hydrogen using renewable energy generated by Zenith's on-site wind turbines.

"This plant is the first of its kind in the world and will serve our customers in the Benelux market", says Baruch Halpert, Executive Chairman and CEO of Electriq. "The Netherlands is an early adopter of hydrogen as the fuel of the 21st century, and we see this Electriq Powder plant as a key enabler to leverage this in innovative, safe and industrial manner".

"This project will pave the way for Europe's move into clean, sustainable energy, leveraging the strengths of our Amsterdam storage terminal to provide a strong foundation for the new energy industries and creating new jobs in the area" said Jeff Armstrong, CEO at Zenith Energy Terminals.

"The Electriq Powder plant is a great example of the ongoing energy transition in our port towards a sustainable fuel hub", says Koen Overtoom, CEO Port of Amsterdam. "We are very happy to host new activities such as this plant and are keen to facilitate this type of intensified land-use and collaboration between parties in the port area".

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