

Dutch climate and green hydrogen tech company Battolyser Systems, has secured EUR40 million (more than \$42 million) from the European Investment Bank to further develop its net zero solutions to help the EU achieve its Green Deal target before 2050.

Battolyser Systems pioneers a new category of dual-purpose energy storage solutions. With the Battolyser(R) - the most efficient electrolyser that lasts and can deal with intermittent power. Electricity storage, and hydrogen production is combined in one robust, flexible, and efficient patented system.

The Battolyser's system offers a unique advantage with its ability to seamlessly switch on and off to match intermittent renewable energy sources. This 100% flexibility reduces the cost of producing green hydrogen while helping to alleviate grid congestion.

Battolyser's is intrinsically safe in any operational mode, even at low and rapidly changing loads. Its patented Nickel-Iron technology is inherently robust and has industry leading efficiency and durability. Battolyser Systems can be a major accelerator for the EU to reach its goals on climate, industry, strategic autonomy and economic growth.

Battolyser Systems' technology is a platform technology that due to its flexibility and battery capacity can enable lowest cost green hydrogen for a wide array of applications and use cases. Typically, Battolyser Systems can deliver solutions that add value in on and off-grid applications as well as in flexible and base load hydrogen offtake ...

Battolyser's is the world's first integrated battery electrolyser system. The patented technology produces a highly efficient electrolyser that can also store and supply power like a battery. The system has the flexibility to follow the most volatile power markets, is scalable and made from only abundant and recyclable materials.

The Battolyser represents a paradigm shift in energy storage, merging the functionality of nickel-iron batteries with electrolysis to create a dual-purpose energy storage system. While still in the developmental stages, the Battolyser concept offers a promising solution to the challenges faced by traditional energy storage technologies.

Battolyser Systems, a Dutch cleantech startup established in 2021, has developed an innovative integrated battery and electrolyser system called the battolyser. This technology efficiently utilizes surplus renewable electricity by charging the battery component.

A Battolyser's offers a dual-purpose energy storage solution with a combined battery and electrolyser function that unlocks a complete new business model. This enables the use of only low-cost electricity or

electricity from renewables; while in hours with high electricity price hours, no hydrogen is produced but rather the battery is ...

Web: <https://www.gennergyps.co.za>