



WALMER ENERGY

Swedish Flow Battery





Overview

Are flow batteries available in Sweden?

Flow batteries are used today in the form of stationary energy storage and are established on the market in many parts of the world, but not yet in Sweden.

Where will Sweden's first organic flow battery be installed?

Rivus Batteries and Bengt Dahlgren will install Sweden's first organic flow battery in pilot-scale at HSB Living Lab in Gothenburg.

What are organic flow batteries?

Organic flow batteries, on the other hand, are a new type of battery technology that uses organic molecules – made of carbon, hydrogen, nitrogen and oxygen – as energy carriers instead of critical metals such as lithium or vanadium.

What is a flow battery?

By circulating electrolytes through a membrane to store and release energy, flow batteries provide robust performance with extended lifespans, modularity, and scalability. Flow battery technologies come in several variants, each offering distinct advantages for large-scale energy storage.



Swedish Flow Battery

Sweden's Cellfion developing PFAS-free ...

Mar 21, 2025 · Swedish startup Cellfion is developing PFAS-free membranes for its LDES non-vanadium flow batteries, CEO and co-founder Liam ...

Process development and scale-up of organic flow batteries ...

Purpose and goal The project aims to industrialize Rivus' metal-free, water-based electrolyte and replace today's metal-dependent flow-battery chemistries with a safer, cheaper and more ...

Rivus Batteries

Rivus Batteries, established in 2019 as a spin-off from Chalmers University of Technology in Sweden, develops organic flow battery technology for large-scale energy storage, focusing on ...

Flow Batteries

Nov 4, 2025 · Flow battery technologies come in several variants, each offering distinct advantages for large-scale energy storage. ? Organic flow batteries utilise carbon-based ...

Sweden's first pilot-scale organic flow battery will be ...

Partnership News ? Sweden's first pilot-scale organic flow battery will be installed at HSB Living Lab, a test arena situated in Gothenburg? Rivus Batteries partners with Bengt Dahlgren to

Sweden's Cellfion developing PFAS-free membranes for ...

Mar 21, 2025 · Swedish startup Cellfion is developing PFAS-free membranes for its LDES non-vanadium flow batteries, CEO and co-founder Liam Hardey has told ESS News. "Additionally, ...

Sweden Flow Battery Market (2024-2030) , Trends, Outlook ...

Market Forecast By Type (Vanadium Redox Flow Battery, Zinc Bromine Flow Battery, Iron Flow Battery, Zinc Iron Flow Battery), By Storage (Compact, Large scale), By Application (Utilities, ...

Sweden's first pilot-scale organic flow battery ...

Partnership News ? Sweden's first pilot-scale organic flow battery will be installed at HSB Living Lab, a test arena situated in Gothenburg? Rivus ...

A fluid battery that can take any shape

Apr 11, 2025 · Using electrodes in a fluid form, researchers at LiU have developed a battery that can take any shape. This soft and conformable ...

Sweden's first pilot-scale organic flow battery will be ...

Apr 4, 2024 · Rivus Batteries and Bengt Dahlgren will install Sweden's first organic flow battery in pilot-scale at HSB Living Lab in Gothenburg. This new battery technology is based on organic ...



A fluid battery that can take any shape

Apr 11, 2025 · Using electrodes in a fluid form, researchers at LiU have developed a battery that can take any shape. This soft and conformable battery can be integrated into future ...

Rivus Batteries

Battery storage capacity must expand 300-fold by 2050 to meet global climate targets. However, current lithium-ion and vanadium flow batteries depend on critical metals with volatile prices, ...

Flow Batteries Tour

Sweden's first innovative microgrid using CellCube flow batteries CellCube's vanadium flow battery technology aimed to overcome the renewable intermittency and acts as a buffer ...

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