

Solar Storage Container Solutions

EU Flow Batteries



Overview

Flow Batteries Europe (FBE) is an international non-profit association aimed at accelerating decarbonisation in Europe and globally by increasing the deployment of energy storage and flexibility solutions through flow battery technology. What is flow batteries Europe?

Flow Batteries Europe represents flow battery stakeholders with a united voice to shape a long-term strategy for the flow battery sector. We aim to provide help to shape the legal framework for flow batteries at the EU level, contribute to the EU decision-making process as well as help to define R&D priorities.

Who are flow batteries Europe & flexbase?

To mark the start of the construction phase, leaders from Flow Batteries Europe (FBE) and the FlexBase Group met in Laufenburg, Switzerland to solidify cooperation on addressing energy security at the European level as the growing reliance on renewables continues to drive the need for long-duration storage.

What is the standard voltage of EU/CE flow battery?

The cell reaction of Eu/Ce flow battery gives a standard voltage of 1.90 V, which is about 1.5 times that of the all-vanadium flow battery (1.26 V). Large standard voltage is conducive to the improvement of battery energy density and power density.

Should the Commission continue supporting the flow battery industry?

To conclude, we call on the Commission to continue supporting the flow battery industry – a leading example of clean tech – as a way to meet the Green Deal objectives. Flow Batteries Europe (FBE) represents flow battery stakeholders with a united voice to shape a long-term strategy for the flow battery sector.

Why is EU/CE flow battery a good choice?

Thus, Eu/Ce flow battery is free of the problems associated with dendrite growth and theoretically have a longer cycle lifetime. The negative electrolyte is very sensitive to oxygen and can directly cause battery failure if exposed to air. The average energy efficiency of Eu/Ce flow battery exposed to air is only 22.0 %.

What is the world's largest flow battery project?

Construction is underway on the world's largest flow battery project at a key cross-border grid hub where Germany, France and Switzerland converge. The project aims to stabilise power flows across national lines, bolstering energy resilience and supporting long-duration renewable integration.

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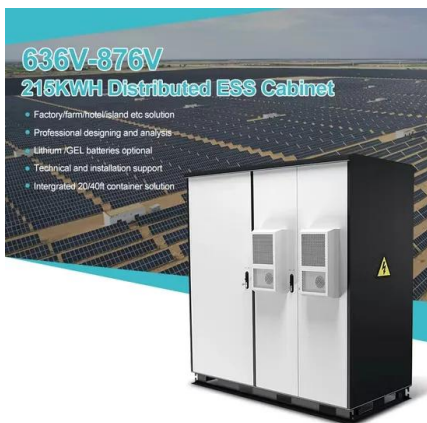


FBE-Activity-Report-2024

Feb 10, 2025 · The EU must pick up the pace to reach its net-zero ambitions and to remain a competitive player in the sector. Flow batteries, as an innovative long-duration energy storage ...

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FLORES-Policy-Brief_October-2021.pdf

Nov 10, 2021 · 65% of which are working on all-vanadium flow batteries. There is a strong flow battery industry in Europe and a large value chain already exists in Europe. Around 41% (17)

...



A united voice for flow batteries PRESS RELEASE

Jun 17, 2025 · Europe's largest flow battery project launched to boost energy security
Construction work for the world's largest flow battery started last month at the strategic critical

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A high-performance aqueous Eu/Ce redox flow battery for ...

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A united voice for flow batteries

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Europe's largest flow battery project launched to boost ...

Jun 17, 2025 · Flow Batteries Europe is convening a joint working group to develop policy recommendations, which will include experience and information from the Laufenburg project. ...



Flow Batteries Europe a year in: A brief overview

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Policy Spotlight: Navigating Current Regulations and ...

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Europe launches largest flow battery project

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