

# **Flow battery system project financing options in Switzerland 2030**





## Overview

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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 flow batteries Europe?

About Flow Batteries Europe 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.

Could a redox flow battery be Europe's largest flow storage system?

Flexbase Group has broken ground on an 800 MW/1.6 GWh redox flow battery project in Laufenburg, Switzerland, in what could become one of Europe's largest flow storage systems. The multi-use site will integrate utility-scale storage, an AI data center, and district heating. From ESS News.

Who is flexbase's redox flow battery project?

Sandra is News Director of pv magazine Deutschland. She has been reporting on solar since 2008. Flexbase Group has broken ground on an 800 MW/1.6 GWh redox flow battery project in Laufenburg, Switzerland, in what could become one of Europe's largest flow storage systems.

Can Switzerland contribute to the development of sustainable batteries?

The battery field is highly dynamic, offering numerous opportunities for Swiss industry to contribute to the development of sustainable batteries along the entire value chain, says Corsin Battaglia, head of Empa's Materials for Energy Conversion laboratory and professor at ETH Zurich, who represents



Switzerland in the Battery 2030+ initiative.

Why should you choose a flow battery system?

The flow battery system will be able to store energy for hours or even days, to maintain grid stability during periods of low wind and solar output. The flow battery does not rely on the use critical raw materials, thereby also ensuring energy storage security as well as energy security.



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### FlexBase Group and Erne to Develop World's Largest ...

FlexBase Group, a Swiss IT, communication, and energy consultancy, has partnered with local construction firm Erne to build an over 500 MW redox flow battery storage system alongside a data center for artificial ...

### Swiss developer breaks ground on 800 MW/1.6 GWh redox flow ...

From ESS News Flexbase Group has begun building what could become one of Europe's largest flow battery storage installations, breaking ground on an 800 MW/1.6 GWh ...



### Switzerland to host world's largest redox flow storage ...

A redox flow battery energy storage facility with an output of 500 MW will be built in Switzerland. The development was announced by the company Flexbase, which said the project is being built in Laufenburg, a town ...

### Project Financing and Energy Storage: Risks and ...

The United States and global energy storage markets have experienced rapid growth that is expected to continue. An estimated 387 gigawatts (GW) (or 1,143 gigawatt hours (GWh)) of new energy storage ...



### Europe's Largest Flow Battery Project Launched to ...

Construction work for the world's largest flow battery started last month at the strategic critical electrical grid interconnection point on the borders of Germany, France, and Switzerland.



### Maximizing Renewable Energy Investments: The Power of ITC Financing

Additionally, the Battery Energy Storage System (BESS) portion of the project could have separate financing terms and investors, as it would likely qualify for a 2025 ...



### Battery Storage Unlocked: Lessons Learned From Emerging ...

Lessons Learned from Emerging Economies The Supercharging Battery Storage Initiative would like to thank all authors and organizations for their submissions to support this publication. This ...





## FlexBase Breaks Ground on World's Largest Redox Flow Battery ...

The transformative project repurposes the former Swissgrid facility and will house the world's largest and most advanced redox flow battery storage system, forming the ...



## Swiss developer breaks ground on 800 MW/1.6 GWh redox flow storage project

PV Magazine Summary Flexbase Group has begun building what could become one of Europe's largest flow battery storage installations, breaking ground on an 800 MW/1.6 ...

## Flexbase, Erne to build 500 MW redox flow battery in Switzerland

Swiss IT, communication and energy consultancy and services firm FlexBase Group has teamed up with local construction group Erne to build an over 500 MW redox flow ...



## Long-Duration Energy Storage Financing: Powering the Future ...

Why LDES Financing Is Today's Hottest Energy Party With global LDES investments projected to hit \$200-500 billion by 2030 [5], this sector is hotter than a Tesla ...



### AI data center & 500MW battery storage project ...

Swiss construction group Erne this week announced it was entering into a strategic partnership with FlexBase Group for the FlexBase Technology Center battery storage and AI data center project. To be located ...



### ASIAPACIFICREGIONS:REPORTON

This report was developed by the Flow Batteries Europe (FBE) Secretariat, in collaboration with the China National Energy Storage Alliance (CNESA), VSUN Energy, and Sumitomo Electric.

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### What's Behind China's Massive New Flow Battery ...

Design of a vanadium redox flow battery system This groundbreaking project promotes grid stability, manages peak electricity demand, and supports renewable energy integration. It also plays an important role in ...



### Swiss developer breaks ground on 1.6 GWh redox ...

Flexbase Group has begun construction on what could become one of Europe's largest flow battery storage installations, breaking ground on an 800 MW/1.6 GWh redox flow system in Laufenburg



### 1.6 GWh flow battery project launched in Europe

Leaders from FBE and the private equity-backed FlexBase Group met in Laufenburg, Switzerland to mark the launch. The flow battery system, on a 20,000 m2 site, will be able to store energy for hours or even ...



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

Construction work for the world's largest flow battery started this month at the strategic critical electrical grid interconnection point on the borders of Germany, France, and ...

### Swiss developer breaks ground on 1.6 GWh redox flow storage project

Flexbase Group has begun construction on what could become one of Europe's largest flow battery storage installations, breaking ground on an 800 MW/1.6 GWh redox flow ...



### Overview of vanadium redox flow battery (VRFB) and supply ...

Establishment of Flow Batteries Europe, an industry association representing the voice of flow battery stakeholders in Europe While the majority of large VRFB sites and supply chain ...



### Switzerland to host world's largest redox flow storage ...

A redox flow battery energy storage facility with an output of 500 MW will be built in Switzerland. The development was announced by the company Flexbase, which said the project is being built in



### Cost Projections for Utility-Scale Battery Storage: 2023 ...

Figure ES-2 shows the overall capital cost for a 4-hour battery system based on those projections, with storage costs of \$245/kWh, \$326/kWh, and \$403/kWh in 2030 and \$159/kWh, \$226/kWh, ...

### Energy Storage Grand Challenge Energy Storage Market ...

Pillot [10] projects 5% annual growth in lead-acid battery demand through 2030 (Figure 22). Although lead-acid batteries are currently the most common battery in both stationary and ...



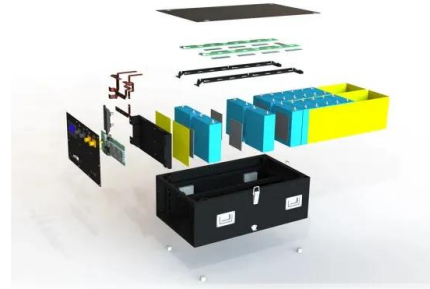
### Construction approval for 1.6GWh flow battery in ...

The system will consist of a liquid with 75% water content supplemented by 25% of a metallic electrolyte, 'typically vanadium or bromine', the company said. The project was revealed to the public in September 2024, the company at the time ...



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

Construction work to build the world's largest flow battery has commenced at the strategic and critically important electrical grid interconnection point on the borders of German, ...



### Big Fluence BESS in Germany inaugurated by ...

An aerial view of the project in Wunsiedel, Germany. Image: BR24 news video on . A group of investors and utilities from Switzerland and Germany have inaugurated a 100MW/200MWh BESS project in Bavaria, ...

### Flow Batteries Mainstreaming for Long-Duration Needs

This is changing, however, and the global long-duration energy storage market is projected to grow at a CAGR of about 14% from USD 4.8bn in 2024 to USD 10.4 billion by 2030. Several factors are today creating a more ...



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

18 June 2025: Construction work for the world's largest flow battery started this month at the strategic critical electrical grid interconnection point on the borders of Germany, France, and Switzerland. The site's location will enable the system ...



## Swiss developer breaks ground on 800 MW/1.6 GWh ...

Flexbase Group has broken ground on an 800 MW/1.6 GWh redox flow battery project in Laufenburg, Switzerland, in what could become one of Europe's largest flow storage systems.



## [Swiss plans for world's biggest flow battery](#)

The site is also the connection point for electricity grids in France, Germany and Switzerland. The battery system will cover 168x79x30 metres, with a 25m basement. The ...

## Construction launched on 1.6-GWh flow battery in ...

Located at the grid interconnection point on the borders of Germany, France and Switzerland, the battery will help stabilise electricity flows across national borders. It will be able to store energy for hours or days to ...



## Flexbase Begins Construction on 800 MW Flow Battery in ...

In a major stride for energy storage in Europe, Flexbase Group has commenced construction of an 800 MW / 1.6 GWh redox flow battery system in Laufenburg, Switzerland, ...



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