

# Jena Flow Battery





## Overview

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Why should you choose Jena flow batteries?

Safe. Sustainable. Jena Flow Batteries is your partner for industrial energy storage solutions. Our resource-efficient, metal-free flow batteries enable safe and sustainable energy storage, advancing Europe's energy transition.

Who is Jena flow batteries?

We are thrilled to announce that the newly founded Jena Flow Batteries GmbH acquired the assets and patents of former Jenabatteries (CERQ) in autumn 2023, paving the way for the future of the innovative battery technology. The participation at the International Flow Battery Forum (IFBF) in Glasgow was a milestone event for us.

What is JenaBatteries & BASF doing?

Ludwigshafen/Jena, February 06, 2020 - JenaBatteries GmbH and BASF are cooperating in the production of an electrolyte for a battery technology that is particularly suitable for stationary storage of electricity from renewable energy sources and for stabilizing conventional transmission grids.

When will JenaBatteries launch the first RFB?

JenaBatteries plans to market the first RFB in 2020. RFBs store electrical energy in chemical compounds. The two reaction partners are present in dissolved form and circulate in two separate circuits. The ion exchange between the two energy-storing electrolytes takes place through a membrane in the galvanic cell.

What makes JenaBatteries a sustainable start-up?

Dr. Oliver Cullmann, Vice President, head of the Special Amines Europe unit in BASF's Intermediates division: "JenaBatteries is a start-up that supports the use of renewable energies with its solutions and therefore fits perfectly with our sustainability strategy."



## Who invented JenaBatteries?

The technology was invented and patented in collaboration with Friedrich Schiller University in the early 2010s. In 2013, an interdisciplinary team with key contributions by Dr. Tobias Janoschka, Dr. Martin Hager, and Prof. Ulrich S. Schubert founded JenaBatteries GmbH and systematically advanced the technology to market readiness.



## Jena Flow Battery

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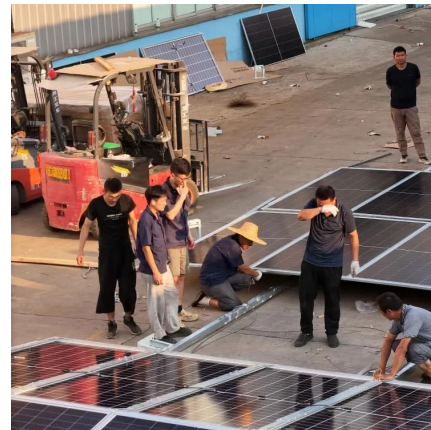


## Jena Flow Batteries

Jena Flow Batteries GmbH is a Germany-based company specializing in the development and production of scalable redox flow battery systems for industrial energy storage applications. ...

## JenaBatteries and BASF develop new power storage technology for flow

JenaBatteries, a German start-up specializing in metal-free stationary energy storage, will market the first redox flow battery in 2020.



## Jena Flow Batteries

Jena Flow Batteries is your partner for industrial energy storage solutions. Our resource-efficient, metal-free flow batteries enable safe and sustainable energy storage, advancing Europe's ...



## JenaBatteries and BASF cooperate in the development of ...

JenaBatteries GmbH, founded in 2012 and headquartered in Jena, is an innovative company in the field of large-format energy storage systems from a battery size of 400 kWh. ...



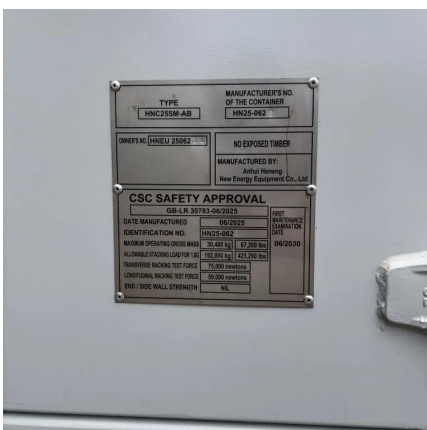
## We Are Jena Flow Batteries.

Jena Flow Batteries GmbH is a leading company in sustainable energy storage. We specialize in stationary battery systems based on innovative redox flow ...



## Polymer redox-flow batteries

Polymer redox-flow batteries PRFB - a promising battery technology Unlike many other battery systems, with PRFB the performance (i.e. how quickly the ...

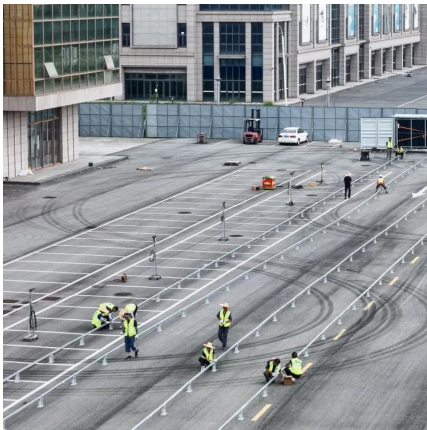






## Equinor, Uniper in flow battery investment and pilot project

Equinor has led an investment round for a flow battery manufacturer and Uniper will carry out a megawatt-scale flow battery pilot project.

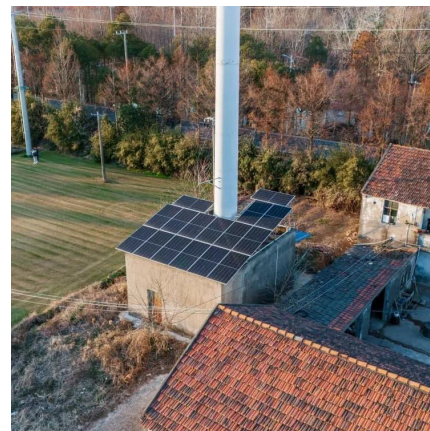


## [INTERNATIONAL FLOW BATTERY FORUM 2024](#)

International Markets for Flow Batteries Yutong Zhu, Jena Flow Batteries: Insights into China's flow Jeehyang Huh, H2, Inc: Recent developments in vanadium Gary Yang, KyRoGreen: ...

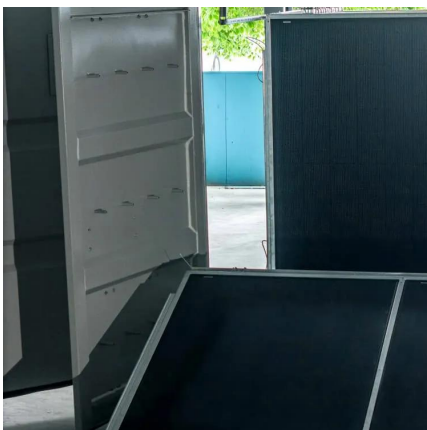
## Aktuelles

NEWS Uniper and Jena Flow Batteries are working towards a strategic partnership Uniper has taken the first step in a planned collaboration with Jena Flow Batteries. Together, we aim to ...



## [BASF and JenaBatteries cooperate to develop ...](#)

BASF and German startup JenaBatteries are cooperating to produce battery technology suitable for stationary storage of energy from ...





## JenaBatteries GmbH

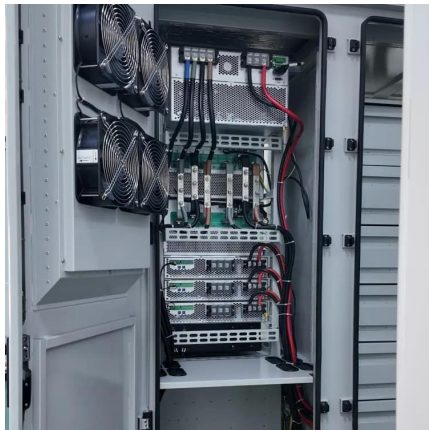
09 October 2023: In January 2023, FBE joined Batteries Europe, a European Technology & Innovation Platform dedicated to advancing Research and Innovation initiatives on batteries.

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### Trust is good, control is better: a review on monitoring and

Flow batteries (FBs) currently are one of the most promising large-scale energy storage technologies for energy grids with a large share of renewable electricity generation. ...



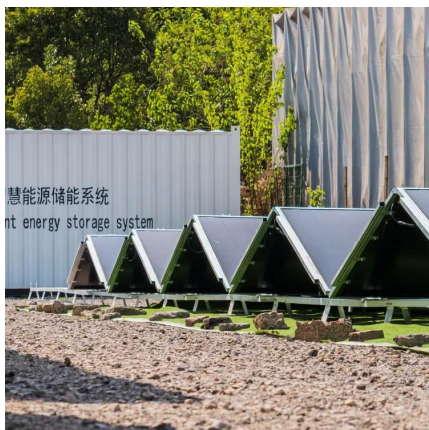
## JenaBatteries and BASF develop new power storage technology ...

JenaBatteries, a German start-up specializing in metal-free stationary energy storage, will market the first redox flow battery in 2020.



### [How ECOSPHERE helped JenaBatteries automate ...](#)

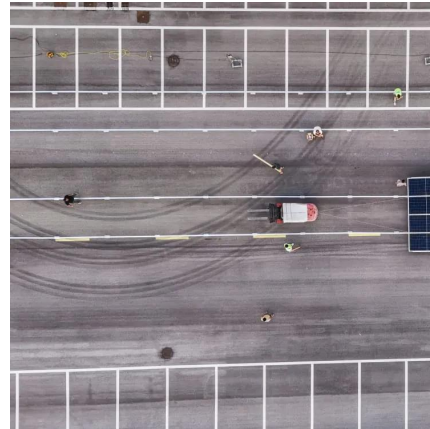
JenaBatteries GmbH from Jena in Thuringia, Germany, is developing redox flow batteries; these large-scale storage systems can be ...





## Allegro to ramp up flow battery capacity after closing ...

Australian redox flow battery developer Allegro Energy aims to "rapidly accelerate" its manufacturing capacity after closing a \$17.5 million ...



## BASF partners with 'metal-free' flow battery startup JenaBatteries

Multinational chemicals company BASF has furthered its interest in the energy storage industry, partnering on the development of 'metal-free' flow battery electrolytes with ...

## We Are Jena Flow Batteries.

Jena Flow Batteries GmbH is a leading company in sustainable energy storage. We specialize in stationary battery systems based on innovative redox flow technology. Our metal-free batteries ...



## [Flow batteries for sustainable energy supply](#)

At Jena Flow Batteries, we are leading the way in sustainable storage of green electricity. In partnership with Suqian Time Energy Storage from China, we bring our cutting-edge metal ...





## JENA Batteries GmbH , Energy Keeper

JenaBatteries GmbH will develop a large-scale, organic redox-flow-battery for the integration in a smart grid. The company will therefore participate in all major work packages. JenaBatteries ...



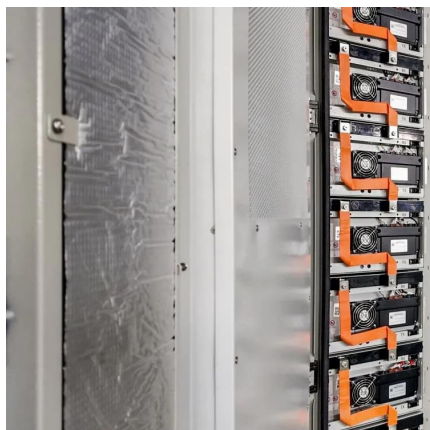
## How ECOSPHERE helped JenaBatteries automate redox flow battery

JenaBatteries GmbH from Jena in Thuringia, Germany, is developing redox flow batteries; these large-scale storage systems can be used to buffer fluctuations in the ...



## Jena Flow Batteries GmbH

Jena Flow Batteries GmbH, established in 2023, specializes in advanced industrial energy storage solutions through its metal-free redox flow battery technology.



## Homepage , HIPOLE Jena

Polymer redox-flow batteries Redox-flow batteries (RFB) are a special battery technology. In contrast to many other battery systems, with ...



## Jena Flow Batteries GmbH

We are Jena Flow Batteries. In a world driven by renewable energy, we are leading the way in metal-free, stationary energy storage. With storage solutions that are as sustainable as the ...



## Technologie

Jena Flow Batteries is a pioneer in this field, setting new benchmarks in partnership with Suqian Time Energy Storage by establishing large-scale manufacturing capabilities.

## Jena Flow Batteries

Develops and manufactures metal-free flow battery systems and components for sustainable energy storage solutions. Jena Flow Batteries GmbH is a Germany-based company ...



## BASF partners with 'metal-free' flow battery startup ...

Multinational chemicals company BASF has furthered its interest in the energy storage industry, partnering on the development of 'metal-free' ...



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