



Mauritania rivus batteries

What are rivus batteries?

Rivus batteries are part of the solution to achieve a more flexible energy system with fewer emissions and a reliable supply of power. Low environmental footprint compared to metal-based batteries

Do rivus batteries require metals to be mined?

Rivus batteries, unlike other leading technologies on the market, require no metals to be mined. Lithium-ion and Vanadium redox flow batteries have a high environmental price as the extraction process is bad for the environment.

How did rivus become a greener battery alternative?

In 2016 Dr. Cedrik Wiberg decided to pursue a PhD to identify a greener battery alternative. Supported by academia, pivotal organic molecule testing led to the discovery of Rivus' core technology and first patent filing in 2019. Commercialization began in early 2023 as Dr. Wiberg left academia and Andreas Kling joined as COO.

Why do we need rivus batteries?

Rivus' ambition is to keep our supply chain on a national level, our batteries can be produced in most countries lowering our environmental footprint. This means we have a more secure supply chain and our batteries are less vulnerable to resource scarcity.

How does rivus produce negative electrolyte?

In producing Rivus' negative electrolyte, we bind four carbon dioxide molecules to our organic molecule. This means that for every kWh of the energy we sell, we will also bind 3.3 kg of CO₂, resulting in a more ecological and affordable battery. Sustainability is part of our batteries.

What is rivus technology?

Rivus' core technology is based on seven years of research conducted across Chalmers University of Technology, University of Turku and the Technical University of Denmark. Join our team! In 2016 Dr. Cedrik Wiberg decided to pursue a PhD to identify a greener battery alternative.

Not only will Rivus batteries secure an ROI in financial terms but produce net benefits to society and the environment. Our clean technology is a climate-friendly alternative to more polluting technologies that require metals to be mined abroad and exported. It is Rivus' ambition to build our batteries nationally, reducing carbon emissions ...

Rivus offers longer overall life than lithium-ion batteries. The corrosion of lithium-ion battery anodes can cause operational interruptions and expensive repairs. Even when they reach end of life or maintenance is required, Rivus batteries allow for graceful, seamless repairs without major stops in operation.



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Rivus is a start-up that is the industrial outlet of the aqueous organic flow battery technology developed at the Chalmers University of Technology in Sweden. Our mission is to help guide the renewable energy development in the most environmentally friendly way possible.

Rivus is truly honored to win the E-Prize award in the Renewable Energy category! Electrification of high-temperature processes, metal-free batteries, and more efficient transport were the focus of this year's winners. Scalability stood out as a key theme for the jury, who had the tough job of selecting from nine worthy finalists.

Rivus Batteries is pioneering sustainable energy storage with its innovative, metal-free flow battery technology utilizing water-based organic electrolytes. The company focuses on reducing costs and environmental impact, offering a ...

Rivus Batteries - Grid scale energy storage by organic flow batteries. Need Rivus addresses the urgent need for cost-effective energy storage, targeting the growing >EUR50B market for stationary battery storage by providing green and ultra-low cost organic flow batteries. Approach

Rivus Batteries can help decrease sudden loads and reduce fuse contract costs. Reduced grid dependency. Keep your production operating at high availability, regardless of the state of the grid. Be among the first. To deploy Rivus battery systems in your industry starting in 2025. Sign up now for a consultation with one of our team members

Rivus is a climate tech start-up on a mission to enable ultra low-cost and eco-friendly grid-scale energy storage. Led by a team of dedicated chemists, battery experts and entrepreneurs our aim is to fundamentally transform how energy ...

Rivus Batteries secures EUR0.5M from xista science ventures, NAVCAP AB, and EIT InnoEnergy to fast-track the deployment of its metal-free organic battery technology. The Swedish start-up aims to halve the cost and climate footprint of stationary energy storage by replacing heavy metal-based electrolytes with organic electrolytes for large-scale ...

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Large-scale batteries are urgently needed to store renewable energy - it's not always windy and sunny when we need it to be. Rivus' vision is to add a critical element to the global energy transition away from fossil fuels to predominantly renewable energy.

Developing organic redox flow batteries for energy storage, using a molecule extracted from stone coal, for



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longer-lasting and sustainable electricity storage. Who is their product for? ...

Rivus Batteries" Board of Directors 2024 October: o Dr. Cedrik Wiberg - Founder & CEO of Rivus Batteries, PhD Chemistry - Since 2019 o Lars Ulin - CEO & Owner of NAVCAP, MBA - Since 2023 o Dr. Alexander Schwartz - Partner at xista science ventures, PhD Organic Chemistry - Since 2023 ...

Rivus Batteries offers truly green batteries for stationary energy storage applications through organic flow batteries. Rivus technology is already proven on a small scale, currently looking for pilot-customers interested in testing and pioneering sustainable stationary energy storage solutions in the size of 100 - 500 kWh.

Svenska start-up företaget Rivus Batteries har säkrat en investering på sex miljoner kronor från xista science ventures, NAVCAP AB och EIT InnoEnergy för att påskynda utvecklingen av metallfria batterier. ...

Rivus Batteries - Grid scale energy storage by organic flow batteries. Need Rivus addresses the urgent need for cost-effective energy storage, targeting the growing >EUR50B market for stationary battery storage by providing green and ...

Rivus Batteries has secured first place at the prestigious pitch competition during The Business Booster 2024 (TBB), organized by EIT InnoEnergy. The event, held annually, brings together top players in sustainable energy and innovation.

Rivus is a climate tech start-up on a mission to enable ultra low-cost and eco-friendly grid-scale energy storage. Led by a team of dedicated chemists, battery experts and entrepreneurs our aim is to fundamentally transform how energy is stored, supporting the global energy transition away from fossil fuels.

Rivus Batteries is a company that operates in this space, focusing on Organic Flow Batteries (OFBs) as a potential solution for energy storage challenges. The Story Rivus Batteries is committed to creating a brighter and more sustainable energy future. Their journey is deeply rooted in the belief that energy storage solutions should be robust ...

Rivus Batteries operates in the increasingly important field of energy storage, focusing specifically on stationary applications with Organic Flow Batteries. Its approach aims to offer a more sustainable and cost-effective alternative to traditional energy storage technologies.

Rivus is proud to join the West Swedish Chemical and Material Cluster and the CEROF-project to advance bio-based and recycled molecules as starting materials for our organic flow battery electrolytes together with cluster members.

Developing organic redox flow batteries for energy storage, using a molecule extracted from stone coal, for longer-lasting and sustainable electricity storage. Who is their product for? Renewable energy companies,



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utility companies, industrial facilities, remote communities.

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