



MODERNIZATION SOLAR

# Wellington companies using flow batteries





## Overview

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What are the current commercial flow battery chemistries?

Current commercial flow batteries are based on vanadium- and zinc-based flow battery chemistries. Typical flow battery chemistries include all vanadium, iron-chromium, zinc-bromine, zinc-cerium, and zinc-ion.

What is a flow battery?

A flow battery is an electrochemical cell that converts chemical energy into electrical energy through ion exchange across an ion-selective membrane. It separates two liquid electrolytes stored in separate tanks. Typical flow battery chemistries include all vanadium, iron-chromium, zinc-bromine, zinc-cerium, and zinc-ion.

How will the flow battery market grow?

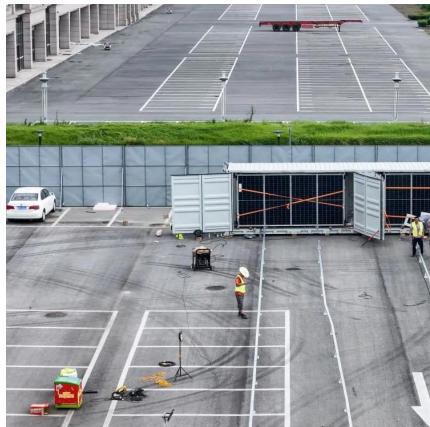
The flow battery market is expected to grow significantly as the share of renewables increases in the primary energy mix. Despite their higher CapEx cost compared to lithium-ion batteries, flow batteries are expected to be used extensively for both front-of-the-meter and behind-the-meter applications in the next several years.

Where do flow battery startups work?

Based on the heat map, we see high startup activity in the USA, followed by the UK and Germany. These flow battery startups work on solutions ranging from grid-scale energy storage and novel battery materials to battery recycling and organic flow batteries.



## Wellington companies using flow batteries

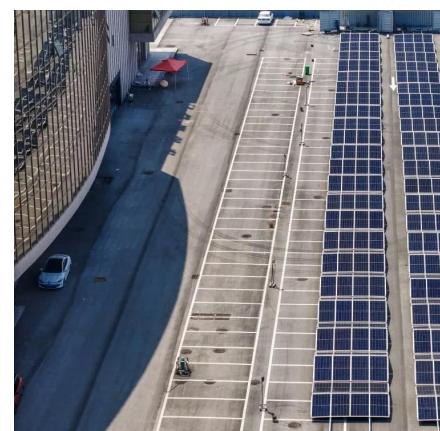


### [Novel electrolyte for more sustainable redox ...](#)

Researchers at Victoria University of Wellington have developed a novel, water-based electrolyte for redox flow batteries that could see them ...

### **Major new player signs contracts for first big battery project ...**

Jul 8, 2025 · A new Singapore-backed battery storage player in Australia has signed contracts for its first project, and has plans for 6 GWh of storage by the end of the decade.



### [XL Batteries Launches Its First BESS Using ...](#)

Apr 28, 2025 · XL Batteries has partnered with Stolthaven Terminals for the first commercial use of its grid-scale organic flow batteries in long ...

### [Novel electrolyte for more sustainable redox flow batteries](#)

Researchers at Victoria University of Wellington have developed a novel, water-based electrolyte for redox flow batteries that could see them become not only safer and more environmentally



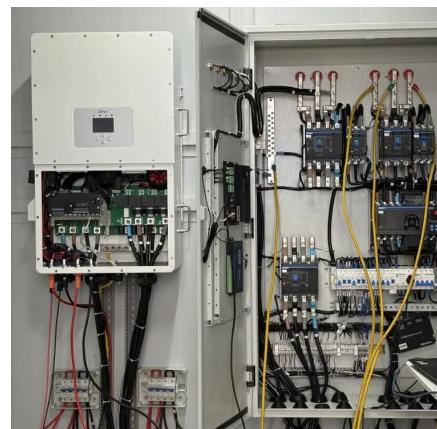
## [Shanghai Electric Energy Storage Technology ...](#)

Jul 8, 2024 · It is also the first MW-level vanadium flow battery energy storage project of Shanghai Electric Energy Storage in the foreign market. ...



## **Flow Battery Companies**

Jun 24, 2025 · Discover leading Flow Battery companies on Battery-Tech Network. Explore innovators in advanced recycling technologies and sustainable circular economy.



## [Western Australia's 500MWh vanadium flow battery initiative ...](#)

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## Flow batteries for net zero in New Zealand

Aug 6, 2023 · This makes flow batteries a better choice than lithium-ion batteries for large-scale energy storage systems, particularly for non-dispatchable renewable energy systems such as

...



## Here's the Top 10 List of Flow Battery Companies (2025)

An Introduction to Flow Batteries  
Top 10 Flow Battery Companies  
Vanadium Redox Flow Battery vs. Iron Flow Battery  
Blackridge Research & Consulting - Global Flow Battery Market Report  
Conclusion  
Now that we got to know flow batteries better, let us look at the top 10 flow battery companies (listed in alphabetical order):  
See more on blackridgeresearch Missing: Wellington Must include: Wellingtonziontechnologies .nz

## 5 Organic Flow Battery Startups to Lookout in ...

Dec 2, 2025 · Chinese startup Time Energy Storage, Based in Sugian, specializes in aqueous organic flow batteries (AOFBs) that focus on high

...



## **7 Leading Vanadium Flow Battery Companies to Watch in 2025**

That is where vanadium flow battery companies step in, offering innovative technology that can store clean energy for hours, or even days, without the risks often seen with lithium-ion ...



## [Meet 20 Flow Battery Startups to Watch in ...](#)

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## [What Are Flow Batteries? A Beginner's Overview](#)

Jan 14, 2025 · Want to understand flow batteries? Our overview breaks down their features and uses. Get informed and see how they can benefit your ...





## Flow Battery Companies

The global flow battery market size is expected to grow from USD 0.34 billion in 2024 to USD 1.18 billion by 2030, at a CAGR of 23.0% from 2024 to 2030. The increasing use of mobile devices ...

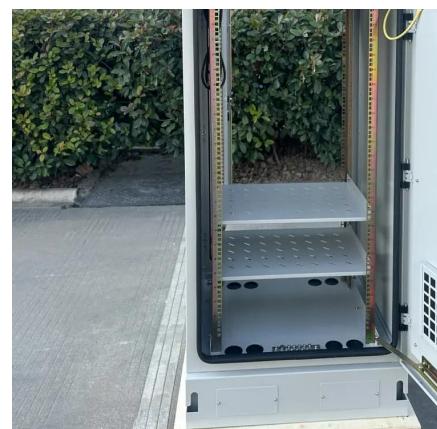
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### [Top 10 flow battery companies in the world](#)

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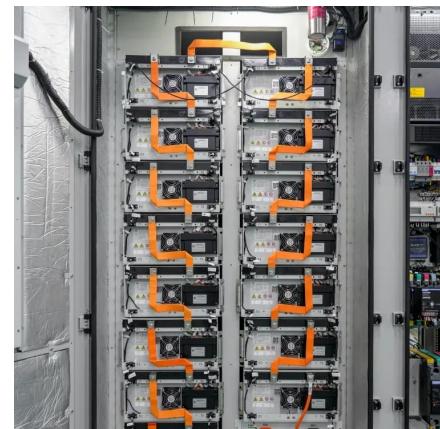


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## [Top Public Companies Developing Flow Battery Technology ...](#)

Nov 4, 2025 · For investors, companies developing flow batteries represent exposure to the intersection of energy storage and clean-technology transition. Below we review a selection of ...



## **Vanadium Flow Batteries**

Vanadium Flow Batteries As the demand for renewable energy grows, so does the demand for solutions that can store renewable energy for ...



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