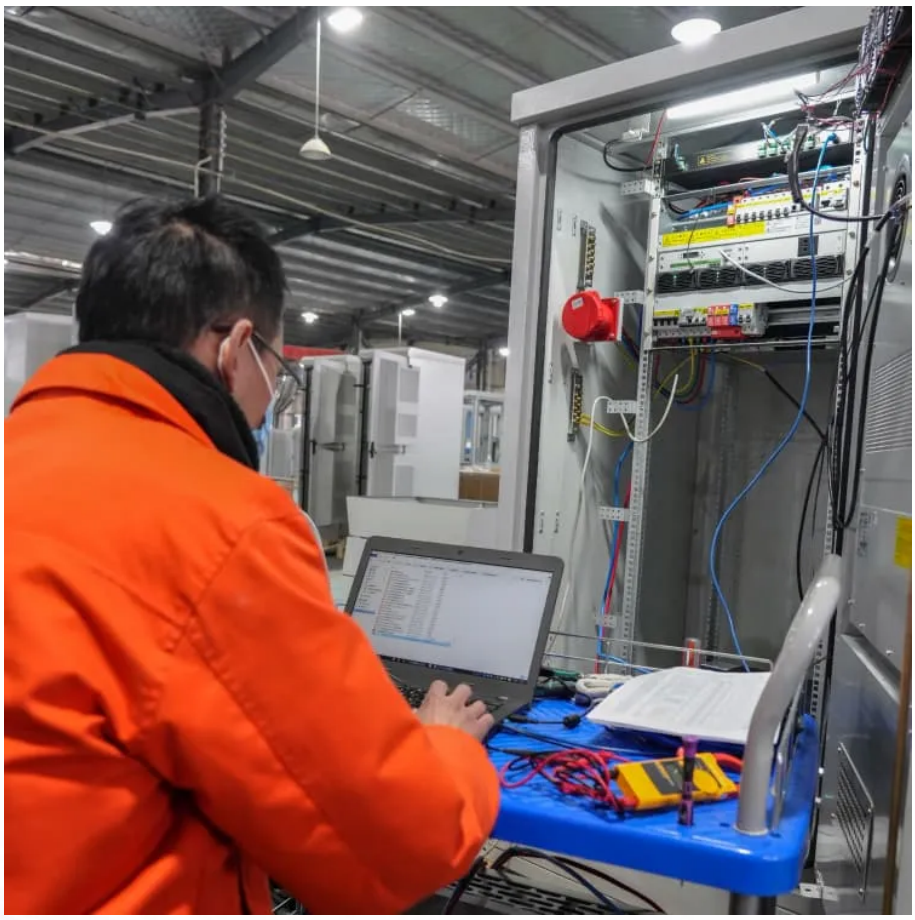
Kongres Container

South America s large-capacity all-vanadium flow battery



Overview

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With the increase in variable renewable energy (solar and wind power) penetration globally, long-duration energy storage (LDES) solutions such as flow battery technology will be essential in meeting the decarbonization goals, grid efficiency, and reliability needs. Also known as redox.

This technology strategy assessment on flow batteries, released as part of the Long-Duration Storage Shot, contains the findings from the Storage Innovations (SI) 2030 strategic initiative. The objective of SI 2030 is to develop specific and quantifiable research, development, and deployment (RD&D).

All-vanadium redox flow batteries (VRBs) initiated by Skyllas-Kazacos and co-workers [1], [2], [3] at University of New South Wales are successfully commercialized and highly competitive among various designs of redox flow batteries, with features such as flexibility for power and capacity design.

Invinity unveils its fourth-generation vanadium flow battery, optimising our proven product platform for large-size energy storage up to gigawatt scale. Tuesday 3 December 2024 Invinity Energy Systems is excited to announce the commercial release of ENDURIUM™, our next-generation modular vanadium.

Explore our range of VRFB solutions, designed to provide flexible options for power and capacity to meet diverse energy storage needs. From grid stabilization to renewable integration, our scalable solutions address complex energy challenges in various industries. Our VRFBs are deployed worldwide.

The global vanadium redox flow battery market size was estimated at USD 394.7 million in 2023 and is projected to reach USD 1,379.2 million by 2030, growing at a CAGR of 19.7% from 2024 to 2030. The primary driver of this growth is the increasing global demand for large-scale energy storage.

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