

## Kongres Container

# Flow Battery Grid-Scale Energy Storage



## Overview

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Associate Professor Fikile Brushett (left) and Kara Rodby PhD '22 have demonstrated a modeling framework that can help guide the development of flow batteries for large-scale, long-duration electricity storage on a future grid dominated by intermittent solar and wind.

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This review provides a comprehensive overview of iron-based ARFBs, categorizing them into dissolution-deposition and all-soluble flow battery systems. It highlights recent advancements in the field and explores future prospects, focusing on four key areas: materials innovation and mechanistic.

The researchers report in Nature Communications that their lab-scale, iron-based battery exhibited remarkable cycling stability over one thousand consecutive charging cycles, while maintaining 98.7 percent of its maximum capacity. For comparison, previous studies of similar iron-based batteries.

The primary objective of this research project is to understand the coupled transport of ions, electrons, and mass species and the electrochemical reactions in the flow battery electrodes. Increased understanding of the transport behavior will not only enable new creative approaches to optimizing.

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