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The Prospects of Flow Battery Energy Storage

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Overview

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The global flow battery energy storage market size was estimated at approximately USD 38.34 million in 2024 and is projected to reach USD 338.87 million by 2033, growing at a CAGR of 27.05% from 2025 to 2033. The increasing need for large-scale, long-duration storage solutions to stabilize.

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 power generators. Sample.

Sumitomo Electric participated in Flow Batteries North America 2025 in Chicago, where we shared the latest updates on our Vanadium Redox Flow Battery (VRFB) projects in California. Download the presentation materials to learn how VRFB technology is enabling long-duration, safe, and reliable energy.

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