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Title: Industry standards for flow batteries

Generated on: 2026-04-11 12:47:53

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What is a flow battery?

Flow batteries are an important technology to provide long-duration energy storage and on-demand energy. In 2025, Battery Council International launched the Flow Batteries North America Conference in partnership with the FBIG and Pacific Northwest National Laboratory. For more information on joining this group, contact BCI's Susan Bernard.

Why should you choose a flow battery?

Long life cycle: flow batteries have a significantly longer lifespan compared to many other battery technologies. This reduces the need for frequent replacements, minimizing waste and environmental impact.
Recyclable components: many components of flow batteries, such as the tanks and pumps, can be easily recycled.

Why do flow battery developers need a longer duration system?

Flow battery developers must balance meeting current market needs while trying to develop longer duration systems because most of their income will come from the shorter discharge durations. Currently, adding additional energy capacity just adds to the cost of the system.

What is a Technology Strategy assessment on flow batteries?

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.

This article, therefore, provides an overview of standardization activities and important standards for flow batteries, whereby no claim to completeness can be made due to the quantity of ...

The guide is chemistry agnostic - relevant to all flow battery chemistries - and applicable regardless of the size or scale of the battery system. A strong focus is placed on hazard ...

This article from GlobalSpec explains the pros and cons of flow batteries. International Standards for flow batteries are developed by ...

In conclusion, while safety standards for flow batteries share common goals, they differ significantly based on regional regulations, ...

What is a flow battery? "„Flow batteries are all electrochemical energy converters that use flowing media as or with active materials and where the electrochemical reactions can be reversed." ...

Used with IEEE Std 1679-2020, this guide describes a format for the characterization of flow battery technologies in terms of performance, service life and safety attributes. This format will ...

It acts as a focal point for the application and commercialization of flow batteries. Battery Council International (BCI) ...

This article from GlobalSpec explains the pros and cons of flow batteries. International Standards for flow batteries are developed by this IEC Technical Committee.

As flow batteries scale, regulatory gaps in permitting pose a challenge. This article outlines what regulators need to know about classifying, approving, and safely integrating flow ...

It acts as a focal point for the application and commercialization of flow batteries. Battery Council International (BCI) announced the formation of its Flow Battery Industry Group ...

As flow batteries scale, regulatory gaps in permitting pose a challenge. This article outlines what regulators need to know about ...

Defined standards for measuring both the performance of flow battery systems and facilitating the interoperability of key flow battery components were identified as a key need by ...

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