

## Kongres Container

# What is the Belgian flow battery



## Overview

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The ES Flow battery is the most environmentally friendly battery made to date, offering a reliable and eco-friendly power source for home users as well as large-scale events such as Tomorrowland and Couleur Café. What is a flow battery?

Decarbonisation requires renewable energy sources, which are intermittent, and this requires large amounts of energy storage to cope with this intermittency. Flow batteries offer a new freedom in the design of energy handling. The flow battery concept permits to adjust electrical power and stored energy capacity independently.

Are flow batteries scalable?

Scalability: One of the standout features of flow batteries is their inherent scalability. The energy storage capacity of a flow battery can be easily increased by adding larger tanks to store more electrolyte.

How does a flow battery differ from a conventional battery?

In contrast with conventional batteries, flow batteries store energy in the electrolyte solutions. Therefore, the power and energy ratings are independent, the storage capacity being determined by the quantity of electrolyte used and the power rating determined by the active area of the cell stack.

Are flow batteries more scalable than lithium-ion batteries?

Scalability: Flow batteries are more easily scalable than lithium-ion batteries. The energy storage capacity of a flow battery can be increased simply by adding larger tanks to store more electrolyte, while scaling lithium-ion batteries requires more complex and expensive infrastructure.

Are flow batteries a good choice for large-scale energy storage applications?

The primary innovation in flow batteries is their ability to store large amounts

of energy for long periods, making them an ideal candidate for large-scale energy storage applications, especially in the context of renewable energy.

How long does a flow battery last?

Flow batteries can release energy continuously at a high rate of discharge for up to 10 h. Three different electrolytes form the basis of existing designs of flow batteries currently in demonstration or in large-scale project development.

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