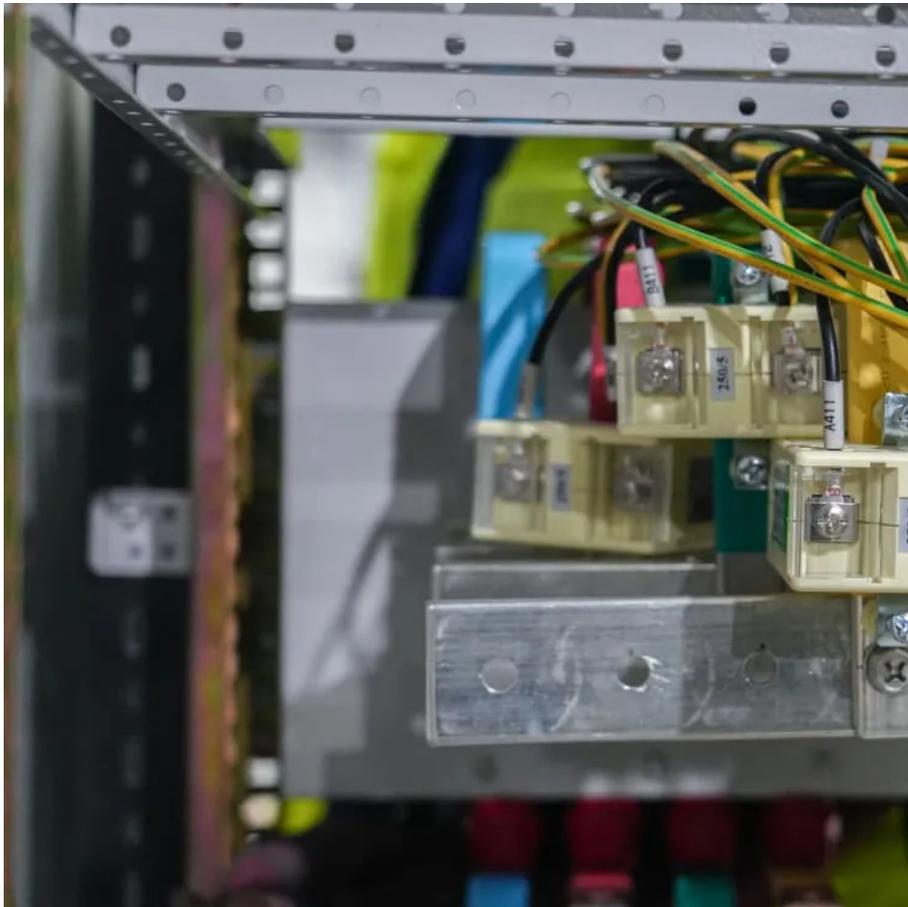


## Kongres Container

# Danish household energy storage lithium battery



## Overview

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Are lithium ion batteries a viable energy storage solution?

Batteries, in particular lithium ion batteries, are among the most well-known and economically feasible technologies for energy storage. As of today it is the only realistic solution for batteries in electric cars, mobile phones and similar mobile devices. But there is a downside.

What is Danish Center for energy storage?

Danish Center for Energy Storage, DaCES, is a partnership that covers the entire value chain from research and innovation to industry and export in the field of energy storage and conversion. The ambition of DaCES is to strengthen cooperation, sharing of knowledge and establishment of new partnerships between companies and universities.

How long did it take to develop a lithium-ion battery?

It took 20 years to develop the lithium-ion battery. It is hoped that the next generation, e.g. lithium-air or flow batteries, which are more sustainable, cheaper and suitable for collecting energy from the electricity grid, will be developed much faster.

How can Denmark develop a new energy technology?

If Denmark shall succeed in the development and implementation of new energy technologies such as energy storage and conversion, a broad knowledge of political and legal frameworks, economic models, the role of civil society as well as new forms of organization and collaboration across sectors and disciplines is necessary.

Are lithium-air batteries a new generation of battery technology?

Lithium-air batteries are an example of a completely new generation of battery technology, and the potential is great because here oxygen replaces a number of the elements we find in solid or liquid form in existing batteries.

What materials are used in lithium ion batteries?

Lithium-ion batteries often use graphite as the anode. In addition, they can be composed of different materials such as silicon, iron, phosphate, nickel, manganese, cobalt, and aluminium. The most commonly used material combinations in lithium-ion batteries often contain rare materials.

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