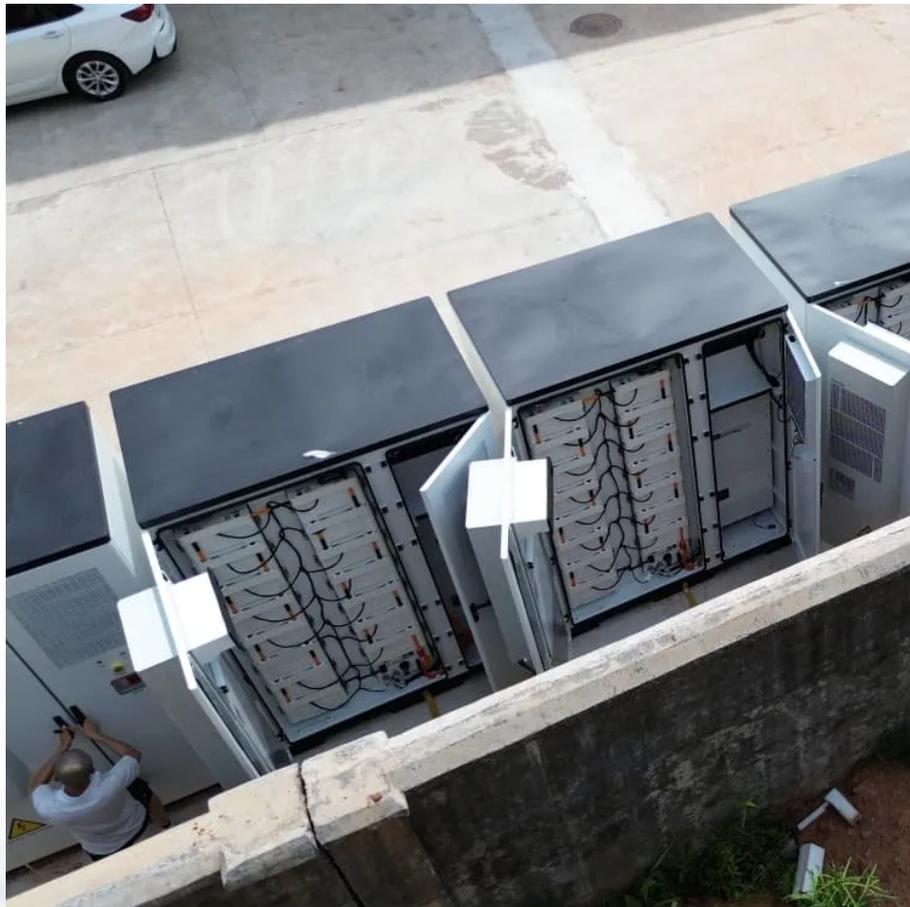


## Kongres Container

# What are the patented technologies of energy storage cabinet batteries



## Overview

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Energy storage cabinet processing technologies involve several advanced methods for efficiently storing and managing electrical energy, including 1. lithium-ion battery technology, 2. flow battery systems, 3. supercapacitors, and 4. thermal energy storage. Can patents protect new battery technologies?

As researchers and companies worldwide develop new battery technologies promising to revolutionise energy storage, support the integration of renewable energy, and contribute to environmental sustainability, they are increasingly seeking to strategically protect these innovations with patents.

Which technologies grew in relevance to battery patenting?

We find that several battery-related technologies and applications, such as energy storage systems, battery management systems, wireless power transmission, electric vehicle charging, and uncrewed aerial vehicles (i.e., drones), grew in relevance both in absolute terms and relative to general battery patenting activity.

What types of battery technologies are being developed for grid-scale energy storage?

In this Review, we describe BESTs being developed for grid-scale energy storage, including high-energy, aqueous, redox flow, high-temperature and gas batteries. Battery technologies support various power system services, including providing grid support services and preventing curtailment.

Why do we need a battery energy-storage technology (best)?

BESTs are increasingly deployed, so critical challenges with respect to safety, cost, lifetime, end-of-life management and temperature adaptability need to be addressed. The rise in renewable energy utilization is increasing demand for battery energy-storage technologies (BESTs).

What are battery energy storage systems?

Battery energy-storage systems typically include batteries, battery-management systems, power-conversion systems and energy-management systems 21 (Fig. 2b).

Can patents be used to map energy storage technologies?

Albeit a gush of recent work using patents in connection with energy storage for particular technologies (e.g. , , , ), patents remain under-exploited for conducting integrative mapping exercises of battery development, i.e. across types, geographies and long stretches of time (some exceptions being , , ).

## What are the patented technologies of energy storage cabinet batt

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