

## Kongres Container

# Price of energy storage cabinet batteries 10 years ago

Modular design,  
unlimited combinations in parallel

**BUILT-IN DUAL FIRE PROTECTION MODULE**



## Overview

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While these systems were once costly, the price of batteries has significantly decreased over the past decade, making energy storage more accessible and cost-effective. From 2010 to 2022, the cost of lithium-ion batteries dropped by 89%, decreasing from around \$1,100 per kilowatt-hour (kWh) to approximately \$137/kWh. Are battery electricity storage systems a good investment?

This study shows that battery electricity storage systems offer enormous deployment and cost-reduction potential. By 2030, total installed costs could fall between 50% and 60% (and battery cell costs by even more), driven by optimisation of manufacturing facilities, combined with better combinations and reduced use of materials.

How much does battery storage cost?

The average energy capacity cost of utility-scale battery storage in the United States has rapidly decreased from \$2,152 per kilowatt-hour (kWh) in 2015 to \$625/kWh in 2018. Battery storage systems store electricity produced by generators or pulled directly from the electric power grid and redistribute the power later as needed.

Does battery storage cost reduce over time?

The projections are developed from an analysis of recent publications that include utility-scale storage costs. The suite of publications demonstrates wide variation in projected cost reductions for battery storage over time.

Are battery storage costs based on long-term planning models?

Battery storage costs have evolved rapidly over the past several years, necessitating an update to storage cost projections used in long-term planning models and other activities. This work documents the development of these projections, which are based on recent publications of storage costs.

What happened to battery energy storage systems in Germany?

Small-scale lithium-ion residential battery systems in the German market suggest that between 2014 and 2020, battery energy storage systems (BESS) prices fell by 71%, to USD 776/kWh.

How much energy does a battery store?

At the end of 2018, the United States had 869 megawatts (MW) of installed battery power capacity (the maximum amount of power a battery can provide at a given moment) and 1,236 megawatthours (MWh) of battery energy capacity (the total amount of energy that can be stored by a battery). Battery storage costs vary by region and application.

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