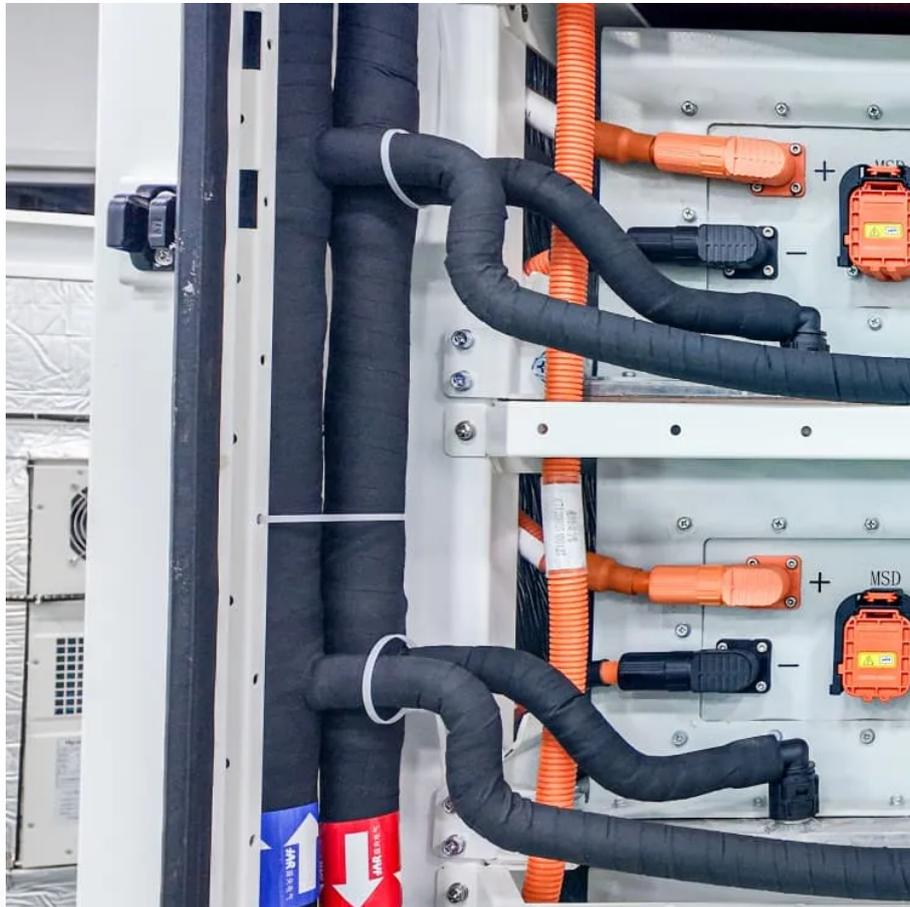


## Kongres Container

# Smart Energy and Energy Storage Solutions



## Overview

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What are energy storage solutions?

Energy storage solutions are systems that capture energy produced at one time for use at a later time, enabling more efficient use of renewable energy sources and improving grid reliability.

Why is energy storage important?

Energy storage is a potential substitute for, or complement to, almost every aspect of a power system, including generation, transmission, and demand flexibility. Storage should be co-optimized with clean generation, transmission systems, and strategies to reward consumers for making their electricity use more flexible.

What are the benefits of storage technology?

Renewable energy integration represents perhaps the most exciting benefit of storage technology. Think about it – solar panels produce most of their energy during midday when many homes sit empty and energy use is low. Without storage, that valuable clean energy gets exported to the grid, often at minimal compensation.

What is energy storage & how does it work?

The world of energy storage offers something for everyone, with three main approaches that serve different needs: Battery systems are the most common option for homes and businesses, storing electricity as chemical energy that can be released when needed.

Why do we need a co-optimized energy storage system?

The need to co-optimize storage with other elements of the electricity system, coupled with uncertain climate change impacts on demand and supply, necessitate advances in analytical tools to reliably and efficiently plan, operate, and regulate power systems of the future.

What is the future of energy storage?

Storage enables electricity systems to remain in balance despite variations in wind and solar availability, allowing for cost-effective deep decarbonization while maintaining reliability. The Future of Energy Storage report is an essential analysis of this key component in decarbonizing our energy infrastructure and combating climate change.

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