

## ContainerPower Energy Solutions

# 100MWh of energy storage project reserves



## Overview

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What is the 100 MW energy storage system?

The 100 MW system is an energy storage installation that will provide critical capacity to meet local reliability needs in the area, while helping California meet its environmental goals.

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.

How has technology impacted the energy storage sector?

Technological developments and market uptake have already had a positive impact on the storage sector: the costs of battery storage are down by 93% since 2010, according to the International Renewable Energy Agency (IRENA). Pumped storage hydropower is the largest energy storage technology globally.

How much pumped storage hydropower is installed in the EU?

46 GW capacity of pumped storage hydropower is installed in the EU, amounting to almost a quarter of the total global installed capacity. Furthermore, from 2019 to 2021, EU companies were responsible for 29% of high value hydropower inventions globally.

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.

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.

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