

## Kongres Container

# Energy storage returns to the distribution grid



## Overview

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This report explores how economic forces, public policy, and market design have shaped the development of stand-alone grid-scale storage in the United States. Grid-scale storage can play an important role in providing reliable electricity supply, particularly on a system with increasing variable.

Energy storage technologies, ranging from lithium-ion batteries to pumped hydro storage and beyond, play a pivotal role in addressing the inherent variability of renewable energy sources and optimizing grid performance. In essence, energy storage serves as a crucial bridge between energy generation.

Dissertation presented at Uppsala University to be publicly examined in Heinz-Otto Kreiss, Ångströmlaboratoriet, Lägerhyddsvägen 1, Uppsala, Thursday, 16 November 2023 at 09:15 for the degree of Doctor of Philosophy. The examination will be conducted in English. Faculty examiner: Professor Louise.

Connecting renewable energy to the power system needs grid infrastructure, both at transmission and distribution levels, including overhead lines, underground and submarine cables and power substations. Despite the

obvious, this fact has been widely overlooked in several regions. Urgent actions.

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