

## ContainerPower Energy Solutions

# Total demand for energy storage power stations in Spain



## Overview

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The 2023 NECP proposes a 173% increase (or 85 GW) in renewable capacity by 2030 from current capacities<sup>1</sup>; storage<sup>2</sup> is expected to increase by 487%, or 15 GW from installed capacity. Long Duration Energy Storage (LDES) can ensure renewable energy is utilised in the system while decreasing reliance.

Spain has taken a decisive step to tackle one of the biggest bottlenecks in its clean energy transition: an overloaded power grid. At an event in Madrid, the government presented its new Electricity Transmission Grid Planning strategy to 2030, outlining a sweeping €16 billion investment package.

Spain has launched an ambitious €700 million (around \$796 million) program to increase its energy storage capacity. This plan will add 2.5 to 3.5 gigawatts (GW) of storage. It includes pumped hydro, thermal energy storage, and battery systems. The goal is to improve how Spain uses renewable energy.

Global energy storage capacity was estimated to have reached 36,735MW by the end of 2022 and is forecasted to grow to 353,880MW by 2030. Spain had 88MW of capacity in 2022 and this is expected to rise to 2,500MW by 2030. Listed below are the five largest energy storage projects by capacity in.

Spain had more than 1,100 hours of zero- or negatively-priced electricity in 2024: more than 45 days. Despite this, battery energy storage systems (BESS) remain rare, with grid operator Red Eléctrica España (REE) recording just 3.36 GW of grid-connected energy storage, 3.3 GW of which was pumped.

Spain is rapidly becoming a hotspot for investment in energy storage. As the country continues its transition to renewable energy sources, demand for

flexible grid-balancing solutions has generated growing interest in battery energy storage systems (BESS). A recent M&A Community webinar examined.

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