

ContainerPower Energy Solutions

French energy storage and new energy electricity costs



Overview

How much battery capacity does France have?

In France, the current storage capacity includes nearly 5 GW of pumped hydro storage and 1 GW in battery systems. As flexibility needs grow in line with the energy transition, Clean Horizon estimates that battery capacity in the country will reach 6 GW by 2030.

How big will battery capacity be in France by 2030?

As flexibility needs grow in line with the energy transition, Clean Horizon estimates that battery capacity in the country will reach 6 GW by 2030. The storage business model in France is currently based largely on system services, in particular aFRR. But in the medium term, arbitrage on the wholesale markets will take over.

What is electricity storage & why is it important?

Electricity storage plays a key role in balancing power grids, providing flexibility to grid operators. In France, the current storage capacity includes nearly 5 GW of pumped hydro storage and 1 GW in battery systems.

What is the European energy storage inventory?

The Commission's European Energy Storage Inventory can help address this gap within Europe. Launched in March 2025, it is the first European-level tool of its kind, providing a real-time dashboard of energy storage levels in Europe, offering energy storage data across a full range of technologies.

Why is electricity storage a strategic source of revenue?

By storing electricity produced when it is abundant (and cheap) and feeding it back into the grid when demand is high (and therefore at higher prices), storage is becoming a strategic source of revenue. Several countries are actively supporting this dynamic through targeted measures.

Are batteries the future of energy storage?

That's where energy storage solutions, such as batteries, have a vital role to play. 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).

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