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Spain air compression energy storage project





Overview

What is energy storage in Spain?

It targets large-scale energy storage projects in Spain. It focuses on technologies like standalone battery energy storage systems (BESS), pumped hydro energy storage (PHES), and thermal energy storage. The program supports hybrid projects, which combine storage with renewable energy, such as solar or wind farms.

How will Spain increase its energy storage capacity?

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.

How long does it take to build energy storage in Spain?

Projects will need to be built within 36 months of being granted the aid, with a final commercial operation date no later than 31 December, 2029. Spain is targeting around 22.5GW of energy storage by 2030 as part of its National Energy and Climate Plan (NECP).

What is compressed air energy storage (CAES)?

Compressed Air Energy Storage (CAES) offers potential, but faces challenges including poor efficiency and reliance on fossil fuels. In this context, the EU-funded Air4NRG project aims to improve long-term energy storage. Specifically, it targets over 70 % round-trip efficiency, sustainability, and integration with the grid.



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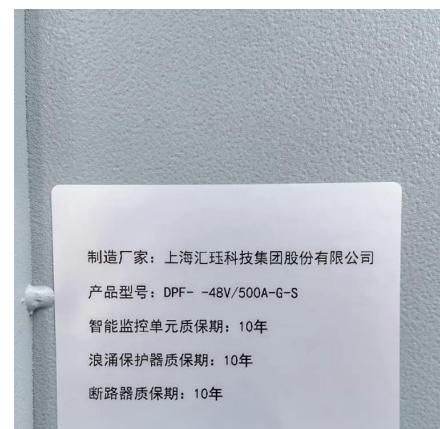
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