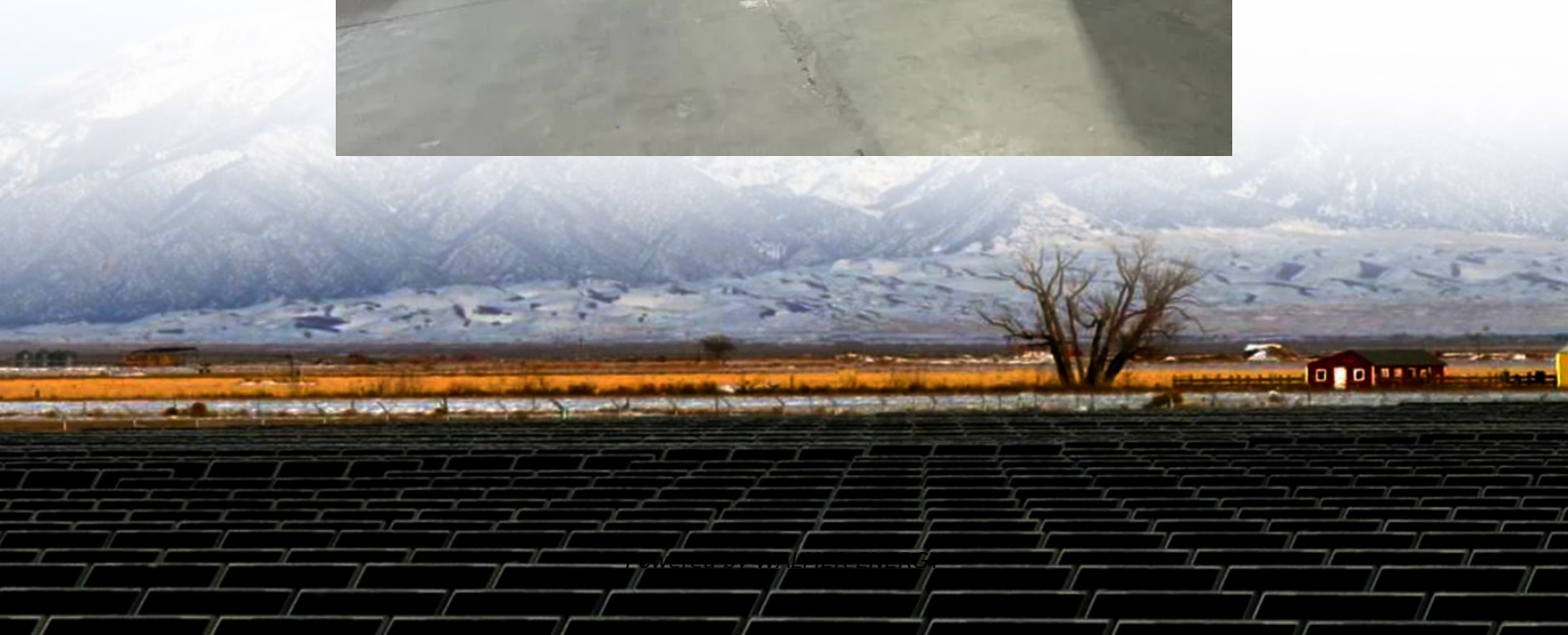


Western European energy storage cabinet power distribution





Overview

How many megawatts of energy storage were installed in Europe in 2024?

Historic and forecasted megawatt installs of energy storage across Europe. Image: EASE / LCP Delta. A total of 11.9GW of energy storage across all scales and technologies was installed in Europe in 2024, bringing cumulative installations to 89GW.

Was 2024 a record year of energy storage deployments?

According to the ninth annual edition of the European Market Monitor on Energy Storage (EMMES) from trade association European Association for Storage of Energy (EASE) and research consultancy LCP Delta, 2024 was a record year of deployments.

How many pumped hydro power plants are there in Europe?

Of the 89GW of cumulative installations in Europe, the majority, 53.1GW, is pumped hydro energy storage (PHES) and electrochemical storage—primarily lithium-ion (Li-ion) batteries—accounts for 34.9GW. However, as Vlachopoulos noted, most of Europe's pumped hydro was installed several decades ago during the 20th Century.

How much battery storage will Europe have by 2030?

LCP Delta is predicting that by 2030, an additional 128GW/300GWh of electrochemical storage will be installed, meaning that Europe will have cumulatively installed about 163GW of mostly battery-based storage by the end of this decade, Vlachopoulos said.



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