

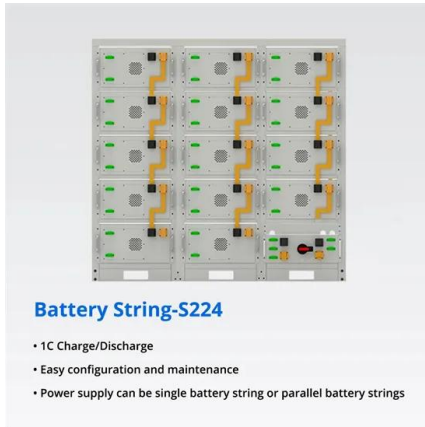
## European Solar Energy Storage

# Global share of wind solar and energy storage



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### Global Energy Storage Growth Upheld by New Markets

Mainland China accounts for most of the global energy storage demand, driven in the near term by regional requirements for new utility-scale wind and solar projects to include energy storage capacity.

### Strategies for climate-resilient global wind and solar power

We leverage seven global climate models (GCMs) 31 to characterize variations in wind speeds, solar radiation and air temperature under future climate change.



### Renewable Capacity Highlights 2025

In the five-year period from 2018 to 2023, global renewable energy capacity expanded at a compound annual growth rate (CAGR) of 10.4%. If this historical trend were to continue, it would result in 8.0 TW of installed renewable capacity by 2030 -- falling 3.1 TW (or 27.9%) short of ...

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## Renewables surged globally in 2024 , World Economic Forum

Global renewable energy capacity grew by a record-breaking 15.1% in 2024 to reach 4,448 gigawatts (GW). Around the world, an additional 585 GW of power was added, largely due to solar and wind energy expansion, figures released by the International Renewable Energy Agency (IRENA) show.

## Global Electricity Review 2025

The combination of affordable solar and wind energy, supported by flexible grids and storage solutions, is enabling faster decarbonisation and at lower cost than previously imagined.



## Wind and solar year in review 2024

Comparing the share of global GDP and under-construction projects for G7, China, and the rest of the world illustrates an asymmetry for utility-scale solar and wind projects.



## Global energy storage

With renewable sources expected to account for the largest share of electricity generation worldwide in the coming decades, energy storage will play a significant role in maintaining the



## **Global Decarbonisation Requires an Energy Storage Target**

Meeting the 3XRenewables by 2030 and Paris Agreement goals require a six-fold increase in global energy storage capacity. Without a global energy storage target, the goals of tripling renewables by 2030 and meeting the Paris Agreement are at risk.

## **Executive summary - Renewables 2024 - Analysis**

Renewable electricity use in the transport, industry and buildings sectors accounts for more than three-quarters of the overall rise in forecasted global renewable energy demand.



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