



Western europe wind solar and energy storage projects





Overview

With over 21 GW set for auction in 2025, Europe is ramping up investments in offshore wind, solar PV, agrivoltaics, and energy storage. France, Germany, Portugal, and the United Kingdom lead the push, while Denmark rethinks its strategy after scrapping a major 3 GW tender.

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Poland's power transmission infrastructure is ready for offshore wind energy as the lines and stations necessary for transmitting power from wind farms in the Baltic Sea have successfully passed voltage tests, power grid operator Polskie Sieci Elektroenergetyczne (PSE) announced. Swiss fund manager.

With over 21 GW set for auction in 2025, Europe is ramping up investments in offshore wind, solar PV, agrivoltaics, and energy storage. France, Germany, Portugal, and the United Kingdom lead the push, while Denmark rethinks its strategy after scrapping a major 3 GW tender. Europe is accelerating.

As the world leans in for renewable energy as a major source, the European Union is leading the way through several upcoming renewable energy projects across Europe. In Q4 2024, renewable sources like hydro, wind (onshore & offshore), solar, and biomass contributed around 42% of electricity.

'The hybrid cases (BESS plus another renewable energy technology) will be gaining importance in the markets where we see a large pipeline of standalone,' said Daniel Parsons. Image: BayWa r.e. From a financial perspective, 2025 was the year that merchant risk began to shake investor confidence in.

The potential of combining solar, wind and storage at one site is clear. Regulation remains the main barrier, but some European countries are now showing how it's done. Combining solar and wind parks with large battery storage systems at a single site, otherwise known as co-location, offers several.

The EU is advancing several key projects and initiatives in the energy storage field



to boost renewable energy integration, stabilize the grid, and support clean energy goals. These initiatives and projects highlight the EU's commitment to advancing energy storage technologies and integrating.



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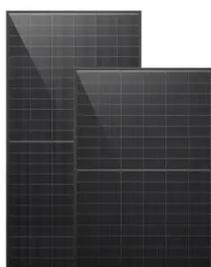


EU wind energy

EU Wind Power Package Wind energy manufacturing, together with other competitive net-zero industries, supports the EU's transition to climate neutrality, while also ...

Who are the key players driving EU storage ...

IRELAND Bord Gáis Energy Bord Gáis Energy, part of Centrica plc, has joined ESB and dCarbonX in the development of the ...



Hybrid energy parks face headwinds in Europe

According to Aurora Energy Research, solar and wind farms with a combined capacity of nearly 1.2 gigawatts (GW) were operating in Europe in 2023 alongside large-scale ...

Top Renewable Energy Projects in Europe Today

Public funding programs, such as the European Union's Horizon Europe program, support research in areas like solar energy, wind energy, and



energy storage. These ...



Projects & Grants

EVERPV SolarPower Europe is responsible for communications, while supporting market analysis and policy activities, in this three-year Horizon Europe funded project, which will aim to: offer ...

[Mapping Europe renewable energy landscape: Insights into solar, wind](#)

Abstract The study offers an in-depth examination of the capabilities and output of renewable energy sources, specifically focusing on solar, wind, hydroelectric, and green ...



[Spain announces 820 MW of energy storage ...](#)

More than 182 MW of the battery energy storage systems (BESS) highlighted in Spain's Official State Gazette (BOE) are for ...



Europe's Green Revolution: 10 Major Renewable Energy Projects ...

The projects, which will begin construction in 2026, are expected to generate enough electricity for around 40,000 households annually. The sites were selected for their ...

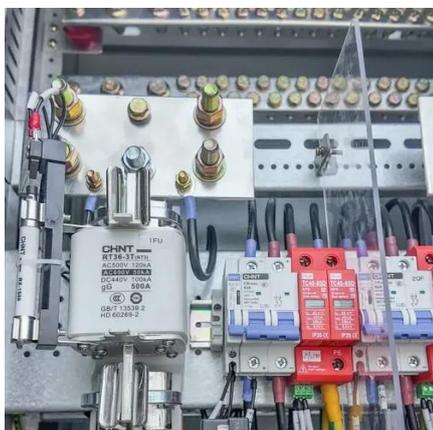


EU to add 89GW renewable capacity in 2025 despite challenges

Industry group WindEurope forecasted a 35% increase in new wind capacity in 2025, with an addition of 17.4GW. However, wind power developer Ørsted has highlighted that ...

Hybrid energy parks face headwinds in Europe

According to Aurora Energy Research, solar and wind farms with a combined capacity of nearly 1.2 gigawatts (GW) were operating in ...



7 Game-Changing Energy Storage Technologies ...

The race to revolutionize energy storage stands at a critical turning point in 2024. As renewable energy adoption accelerates across ...



[EU to add 89GW renewable capacity in 2025 ...](#)

The EU is on track to install a record 89GW of renewable energy capacity in 2025, including 70GW of solar and 19GW of wind power.

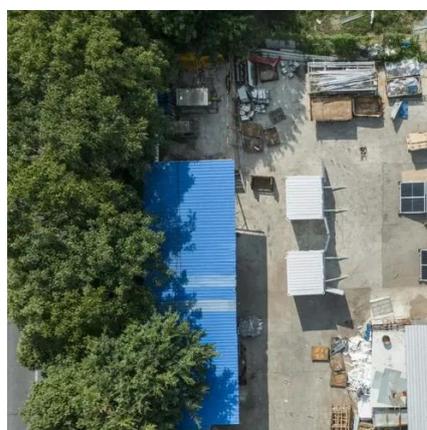


[New analysis reveals that EU solar stalls, 2025 projected to mark ...](#)

The utility-scale solar market remains relatively resilient, driven by auctions across Europe that incentivise flexible solar projects that are combined with storage or wind. ...

[In 2025, Over 21 GW Up for Grabs: Europe's Renewable ...](#)

Over 21 GW of renewable capacity will be auctioned across Europe in what remains of 2025, covering offshore wind, onshore wind, solar PV, agrivoltaics, and energy ...



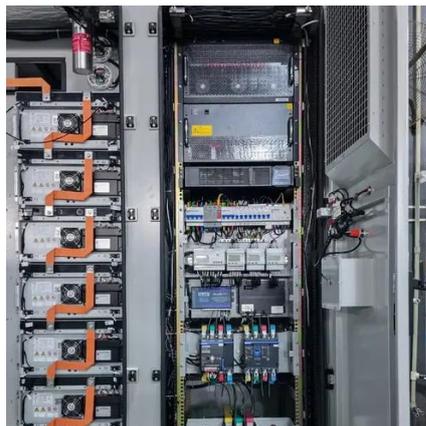
[BayWa r.e. on Europe's investment landscape](#)

PV Tech spoke to Daniel Parsons about BayWa r.e.'s European dealmaking in 2025 and the role of co-located renewable energy plus BESS.



[Renewable Energy News Europe , Latest by Renewables Now](#)

Comprehensive news coverage of renewable energy projects, investments, and policies across Europe. Track the latest in solar PV, onshore and offshore wind, hydrogen, ...

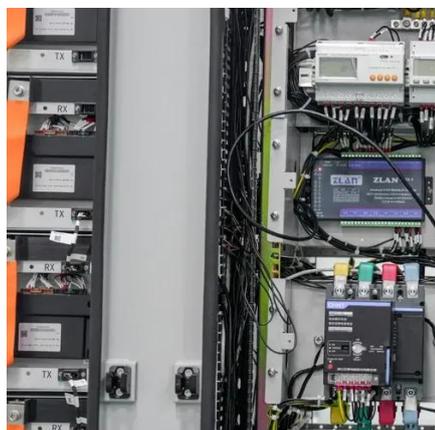


[OX2 secures 1GW wind-plus-storage project in Western Australia](#)

OX2 has acquired a proposed 1GW onshore wind farm in Western Australia, which includes plans for a 100MW c-located BESS.

[Top 10: Energy Storage Projects](#)

Due to the rising demand for energy storage, propelled further by the need for renewable energy supply at peak times, energy storage ...



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OX2 has acquired a proposed 1GW onshore wind farm in Western Australia, which includes plans for a 100MW c-located BESS.



[WFEC Skeleton Creek Wind Project - Oklahoma Assn of Electric ...](#)

ANADARKO, Okla. (Dec. 17, 2020) - Western Farmers Electric Cooperative (WFEC), together with a subsidiary of NextEra Energy Resources, LLC, announced the completion of the first ...



[Insight into key developments in pumped storage ...](#)

US Scientists have developed an algorithm to predict electric grid stability using signals from pumped storage hydropower projects.

Battery storage

Bridging the supply-demand gap Enhancing energy security with battery storage Solar and wind energy production fluctuates ...



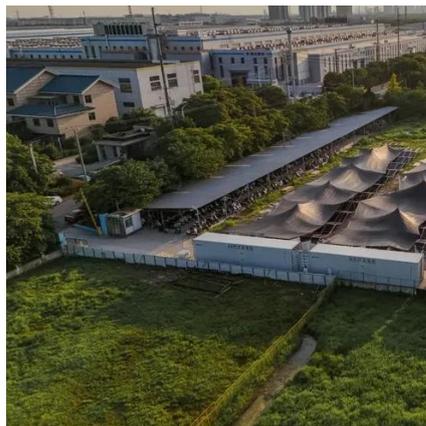
[Top 10 Wind Developers in Europe , PF Nexus](#)

Explore how Europe's wind energy landscape is transforming with significant developments in wind energy capacity. Learn about the ...



[Key Projects, Initiatives and Market , JRC SES](#)

The EU is advancing several key projects and initiatives in the energy storage field to boost renewable energy integration, stabilize the grid, and support clean energy goals. These ...



[European energy storage: a new multi-billion-dollar ...](#)

"With energy storage, there's a new and interesting asset class emerging, and the business model is fundamentally different to that of ...

[Top 10 New Upcoming Europe Renewable Projects in 2025](#)

In 2025, Europe is all set for impactful wind and solar energy projects. Check out our blog for the top 10 new upcoming renewable projects in Europe.



[Production of renewable energy in Europe , Akuo](#)

It draws on the Group's technical expertise in solar power, wind power, and storage, as well as on our capacity to develop close ties with the whole gamut of local stakeholders in projects: local ...





[Here comes the boom: Wood Mackenzie forecasts ...](#)

WoodMac predicts 5.4 TWac of new solar and wind will come online by 2033, as global energy storage capacity grows by more than ...



[Top 10: Energy Storage Projects](#)

Due to the rising demand for energy storage, propelled further by the need for renewable energy supply at peak times, energy storage facilities and producers have grown ...

[Here comes the boom: Wood Mackenzie forecasts ...](#)

Annual capacity will increase from approximately 500 GW of new solar and wind capacity installed in 2023, and average 560 GW ...



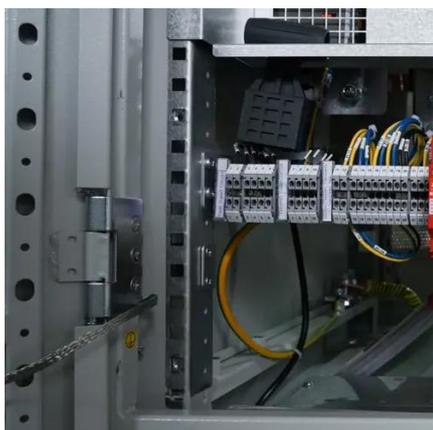
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Key Projects, Initiatives and Market , JRC SES

The TEN-E regulation and the Projects of Common Interest framework prioritise cross-border energy infrastructure, including energy storage projects that benefit multiple EU countries.



The Future of Energy Storage in Europe: A

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TotalEnergies and Canadian Solar are boosting the future of energy storage in Europe with major projects in Germany and the UK.



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