

**Espay Solar Energy S.L.**

# **Prospects of wind power and photovoltaic power generation projects**



## Overview

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As a result of new solar projects coming on line this year, we forecast that U. solar power generation will grow 75% from 163 billion kilowatthours (kWh) in 2023 to 286 billion kWh in 2025. Growth in utility-scale and distributed solar PV more than doubles, representing nearly 80% of worldwide renewable electricity capacity. The new tax law, commonly referred to as the One Big Beautiful Bill Act, rolled back many clean energy tax credits and imposed new restrictions, pressuring early-stage wind and solar pipelines. Wind and solar investments in the first half of 2025 fell 18%, to nearly US\$35 billion (prior to the. Prospective utility-scale solar and wind capacity — projects that have been announced or are in the pre-construction and construction phases — grew by over 20% globally in 2024 from 3. 4 TW, only half of what is needed for global tripling renewable goals. Here are three critical forces shaping the future of wind energy.

## Prospects of wind power and photovoltaic power generation project

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Two Energy and Power Storage Units

### Solar and wind to lead growth of U.S. power generation for the next

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### A Decade of Growth in Solar and Wind Power: Trends Across the U.S.

This report uses data from the EIA to analyze solar and wind capacity and generation over the past decade (2014 to 2023) in all 50 states and the District of Columbia.



### Renewable electricity - Renewables 2025 - Analysis



1075KWHH ESS

For solar PV, wind and bioenergy for power, deployment has been revised downwards. Solar PV accounts for over 70% of the absolute reduction, mainly from utility-scale projects, while offshore

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## 10 US wind energy projects starting in 2026 and beyond

From 2025 to 2029, the U.S. Wind Energy Monitor projects 33 GW of new onshore capacity, 6.6 GW offshore, and 5.5 GW in repowers, a total of 45.1 GW. This number is down 40% ...



## Global spatiotemporal optimization of photovoltaic and wind power to

Few studies have optimized global deployment of photovoltaic and wind power. Here we present a strategy involving construction of 22,821 photovoltaic, onshore-wind, and offshore-wind

## Wind and solar year in review 2024

Prospective utility-scale solar and wind capacity -- projects that have been announced or are in the pre-construction and construction phases -- grew by over 20% globally in 2024 from 3.6 ...



## 2026 Renewable Energy Industry Outlook , Deloitte Insights

Mid-2026 starts: Projects beginning construction by J, or in service by 2027,



may still qualify but face uncertainty around FEOC compliance. Beyond utility-scale wind and solar, phaseouts are ...

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## Can Wind Energy Compete? Three Key Takeaways on Its Future

Wind energy has long been a cornerstone of the renewable energy sector, yet it faces increasing competition from solar power, supply chain disruptions, and shifting global policies. Here ...



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## Investigating and predicting the role of photovoltaic, wind, and

By 2028, renewables are predicted to account for 42% of global electricity generation, with significant contributions from wind and solar photovoltaic (PV) technology, particularly in China, the ...

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## US renewable energy outlook 2025

12 months for US renewables, we organized key data points, observations and analyses according to six themes. While many of the themes are ongoing,

how they come together in 2025 could influence the ...



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