



# Backlog of photovoltaic panels





## Overview

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In the third quarter of 2025, solar projects representing about 20% of planned capacity reported a delay, a decrease from 25% in the same period in 2024, based on data compiled from multiple Preliminary Monthly Electric Generator Inventory reports. Many grid operators are overwhelmed by projects, according to a report by Enverus. Administrations, funding and tax credits for renewable energy projects under the Inflation Reduction Act and regulatory pressures to retire legacy fossil fuel. The backlog of new power generation and energy storage seeking transmission connections across the U. (~1,250 GW) is approximately equal to the entire installed capacity of the nation's power plant fleet. 6 tera watts — were making their way through the series of studies and steps required to plug into the power. In 2024, the US solar industry installed nearly 50 gigawatts direct current (GWdc) of capacity, a 21% increase from 2023.



## Backlog of photovoltaic panels



### [US grid connection backlog, dominated by solar, grows to 2.6TW in 2023](#)

Solar accounted for the majority of generation capacity in the queues with a combined capacity of 1,080GW, followed by wind (366GW). A total of 571GW of solar capacity in the queues ...

### [Chart: The US clean energy backlog is getting bigger and bigger](#)

Almost all of this backlog, known as the interconnection queue, consists of clean energy -- and it's mostly from solar and batteries. At 2.6 terawatts, the interconnection queue is now about ...

**12.8V 200Ah**



### [Solar Market Insight Report 2024 Year in Review - SEIA](#)

3.3. Community solar PV 1,745 MWdc installed in 2024, 749 MWdc installed in Q4 2024 Up 35% from 2023 Note on market segmentation: Community solar projects are part of formal ...

### [Electrical grid interconnection backlog grew 30% in 2023](#)

The backlog of new power generation and energy storage seeking transmission connections across the U.S. grew again in 2023, with nearly 2,600 GW of generation and storage ...



### [Grid connection backlog grows by 30% in 2023, dominated by ...](#)

The Federal Energy Regulatory Commission (FERC) adopted major interconnection reforms in 2023 that have not yet taken effect in most regions; project developers continue to cite ...



### **Grid connection backlog grows to 2.6TW in 2023**

The grid connection backlog in the US increased by 27% year-on-year in 2023, with about 2.6TW of generation and storage capacity now seeking interconnection, according to a study from ...



### [Fewer U.S. solar projects are reporting delays in their expected online](#)

In the third quarter of 2025, solar projects representing about 20% of planned capacity reported a delay, a decrease from 25% in the same period in 2024, based on data compiled from ...



### [Interconnection shake-out: 160 GW of](#)



### [solar advances as 12% of ...](#)

Interconnection queues for U.S. power plants have grown steadily for years, largely due to the strength of wind, solar, and more recently, battery storage. At one point, the queue held ...

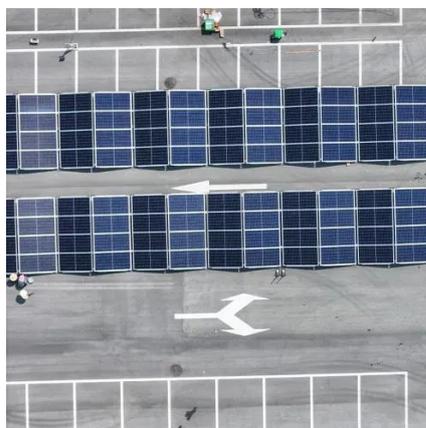


### [Gridlock Plagues the Growing Backlog of U.S. Renewable Energy ...](#)

In April 2024, an updated study on the grid connection backlog finds the following: Solar energy projects led the U.S. interconnection queues with a combined capacity of 1,080 GW, followed ...

### [U.S. renewables developers face daunting grid interconnection ...](#)

A new report by Texas-based energy consultancy Enverus says grid operators interconnection queues are lengthening, leading to project delays and even suspensions. The ...





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