

# Solar power generation industry issues



## Overview

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In our US solar market insight Q2 2025 report, created in collaboration with the Solar Energy Industries Association (SEIA), we dive into the federal policy headwinds and trade-action whirlwind and how these factors impact the future of the US solar industry. The US solar industry installed 10.8 gigawatts-direct current (GWdc) of capacity in the first quarter of 2025. Further, solar accounted for 69% of all new electricity-generating capacity. In our journey as solar advocates, we have encountered various hurdles including economic, technological, and regulatory barriers that need to be addressed. Customer skepticism and complex proposals are some of the common obstacles faced by solar installers, making efficient project management. of PV were added globally, bringing the cumulative installed capacity to 2.2 TW dc • China continued to dominate the global market, representing ~60% of 2024 installs, up 52% y/y. • The IEA reported Pakistan's rapid rise to fourth place in annual global PV. Obsolescent technology, serial defects, maintenance difficulties, and grid connection limitations are all creating unique risk management problems for North American solar. During the next decade or so, experts anticipate more widespread solar development and employment.

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### Spring 2025 Solar Industry Update

o At the end of 2024, solar was the second-largest source of U.S. generation capacity, though still a growing percentage of the U.S. electric generation mix. o In 2024, solar represented ...

### Challenges Facing The Solar Industry Right Now

With economic health restored, the industry's expansion could skyrocket. Despite the industry's recent growth, it faces several significant challenges. Improvements are necessary for efficiency, reliability, ...



### The Outlook for Global Solar Energy Continues to Be Bright

When solar energy, together with wind energy, forms a high share of power generation in a grid, any excess swings in power frequency can lead to blackouts, as seen in Spain and Portugal ...



### U.S. Solar Industry Faces Challenges

## Despite Government Incentives

The U.S. solar industry, heralded as a beacon for clean energy, is currently grappling with significant setbacks and an array of business closures, despite extensive governmental efforts to ...



## Large-scale solar projects facing outsized risks

To truly benefit from new economies of scale unlocked by large-scale solar, the industry has to address the outsized risks that come with this and so ensure that these megaprojects are ...

## 5 Major Challenges In Solar Energy Development

Issues such as storage, efficiency, and huge investment requirements in infrastructure are major obstacles in scaling up solar energy to meet demand worldwide. Besides, geographical limitations ...



## The US solar industry faces a perfect storm of Federal policy and ...

The solar industry's supply chain shifting domestically and increased energy



demand from AI and data centers are driving this recovery, but labor shortages and interconnection delays ...

## Top 5 Challenges in the Solar Industry and How to Overcome Them: ...

The solar industry is facing significant challenges that affect its growth and efficiency. These challenges include high initial investment costs, limitations in energy storage, and supply ...



## Solar Market Insight Report - SEIA

In the months following the passage of the One Big Beautiful Bill Act (OBBBA), the solar industry has been adapting to new and not fully settled policy. Several uncertainties still hang over ...

## What Are The Current Issues With Solar Power

Solar energy faces multiple challenges, including difficulties in connecting to electrical grids, equipment shortages,

supply chain delays, insufficient land for commercial installations, and a ...



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