

Solar power generation policy trends



Overview

Policymakers in some of the world's largest economies are reducing support for solar power generation. Even so, Goldman Sachs Research expects rapid growth in the sector, with global solar installations set to rise to 914 Gigawatts (Gw) in 2030, 57% above 2024 levels. NREL | 3 Executive Summary Global PV Deployment • In 2024, between 554 GW dc and 602 GW dc 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 rest of the world was up. 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. Electricity generation by the U. In our latest Short-Term Energy Outlook (STEO), we expect U. electricity generation will grow by 1. 6% in 2027, when it reaches an annual total of 4,423 BkWh. As of September 2025, deployment numbers are soaring to new highs, yet industry players also face challenges like policy uncertainty, financing hurdles, and supply.

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[2026 Renewable Energy Industry Outlook, Deloitte Insights](#)

Policy shifts and macroeconomic pressures are intensifying the push for efficiency. Developers are prioritizing cost discipline across equipment, design, engineering, and labor while accelerating ...

[Quarterly Solar Industry Update](#)

Each quarter, the National Renewable Energy Laboratory conducts the Quarterly Solar Industry Update, a presentation of technical trends within the solar industry.



[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 ...

[U.S. Solar Market Trends 2025 - Record Growth & Risks](#)

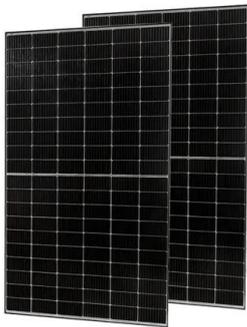
In this analysis, we examine the latest trends in installations, costs, and market dynamics, providing solar businesses, developers, and investors with a comprehensive picture of ...

Lithium Solar Generator: \$150



[Solar power generation drives electricity generation growth over the](#)

In our STEO forecast, utility-scale solar is the fastest-growing source of electricity generation in the United States, increasing from 290 BkWh in 2025 to 424 BkWh by 2027. Almost 70 ...



[Review of solar PV deployment trends, policy instruments, and growth](#)

This section presents a comparative overview of policy instruments in three countries, key milestones, policy developments in each country, and country-specific PV deployment trends using ...



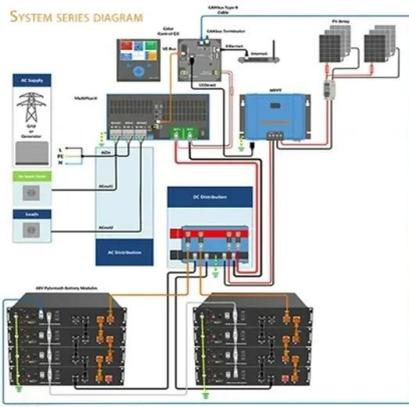
[Spring 2025 Solar Industry Update](#)

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 ...



[The US solar industry faces a perfect storm of Federal policy and ...](#)

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 ...



[Trends in PV Applications 2025](#)

Dual-use applications such as agrivoltaics, floating PV, and infrastructure-integrated PV are becoming increasingly relevant, helping balance land use, food production, and renewable energy generation.

[The Outlook for Global Solar Energy Continues to Be Bright](#)

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