

PEES Power Systems

**Gigawatt solar development
outlook**



Overview

Almost 70 gigawatts (GW) of new solar generating capacity projects are scheduled to come online in 2026 and 2027, which represents a 49% increase in U. 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. Global solar installations reached nearly 600 GW – an impressive 33% increase over the previous year – setting yet another record. Solar accounted for 81% of all new renewable energy capacity added worldwide. While remaining a modest contributor to overall electricity generation for now, solar's. 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.

Gigawatt solar development outlook



Gigawatt growth

Two-thirds of current projects are from clean energy sources such as solar and wind farms, while coal-fired plants make up the majority of the fossil fuel capacity pipeline.

Global Market Outlook for Solar Power 2025-2029

In our most realistic scenario, we anticipate a 10% increase in installations to 655 GW in 2025, with annual growth rates remaining in the low double digits between 2027-2029, reaching 930 ...



Solar Market Insight Report Q4 2025

Overall, our five-year utility-scale solar outlook remained virtually unchanged from our Q3 outlook. However, additional permitting risk remains for projects sited on private lands, given the ...

The Outlook for Global Solar

Energy Continues to Be Bright

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 Market Insight Report - SEIA

While our commercial and community solar outlooks have risen slightly due to enhanced project pipeline visibility, we've downgraded our residential outlook as tight module availability is ...

Global renewable capacity is set to grow strongly, driven by solar PV

Solar PV will account for around 80% of the global increase in renewable power capacity over the next five years - driven by low costs and faster permitting timeframes - followed by wind, ...



Emerging solar era: The global expansion of solar PV and energy ...



Residential PV is rising, capturing a larger share of rooftop installations with 108 GWDC, while commercial and industrial PV will see a slight dip, totaling 78 GWDC this year. The expanding solar ...

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 ...



Global Solar Outlook 2025-2029: SolarPower Europe

The global solar industry experienced unprecedented growth in 2024, with a record 597 gigawatts (GW) of new solar capacity installed, marking a 33% increase over the previous year.

Global solar energy outlook

In the last few years, solar energy has been the main driver for renewable energy growth worldwide. In 2024, solar

photovoltaic capacity additions
surpassed 600 gigawatts, accounting for
...



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