

Solar energy sector Power generation sector



Overview

Solar power generation predominantly belongs to the renewable energy sector, specifically categorized under the energy generation industry. This sector focuses on utilizing solar technology to convert sunlight into electricity, offering a sustainable alternative to fossil fuels. Global renewable power capacity is expected to double between now and 2030, increasing by 4 600 gigawatts (GW). 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. This is roughly the equivalent of adding China, the European Union and Japan's power generation capacity combined to. Crude oil, gasoline, heating oil, diesel, propane, and other liquids including biofuels and natural gas liquids. Energy use in homes, commercial buildings, manufacturing, and transportation.



Article Content

Solar Market Insight Report – SEIA

US Solar Market Insight is a quarterly publication of Wood Mackenzie and the Solar Energy Industries Association (SEIA).

2026 Renewable Energy Industry Outlook | Deloitte

Deloitte's 2026 Renewable Energy Industry Outlook indicates that amid policy changes, the industry is likely to focus on building resilience

Solar and wind reach record 17% of U.S. power generation

The combined output from wind and utility-scale solar reached a record 760,000 GWh last year, accounting for 17% of total U.S. electricity generation as the sector scales to meet

Global Electricity Mid-Year Insights 2025

As the world's energy needs increase and electricity makes up a growing share of final energy consumption, spectacular solar growth, alongside increased wind generation, met and

Which sector does solar power generation belong to?

Solar power generation predominantly belongs to the renewable energy sector, specifically categorized under the energy generation industry. This sector focuses on utilizing solar

Global Electricity Review 2026

Solar power cemented its role as the dominant driver of change in the global power sector, with its record growth meeting three-quarters of the net rise in electricity demand in 2025.

German Public Electricity Generation in 2025: Wind and

Across the EU, photovoltaics surpassed coal-fired power generation for the first time in 2025. Wind power was the strongest net electricity producer in

European Electricity Review 2026

The EU's electricity transition reached a new milestone in 2025 with wind and solar generating more power than fossil fuels.

India – World Energy Investment 2025 – Analysis

While growth in power generation has come from all sources, there has been a surge in investment in renewables, led by solar PV, which constitutes more than

Global Energy Trends: Clean Energy Growth and Rising Demand

Clean energy continues to dominate new power capacity. For example, in 2024, more than 90% of all new electricity capacity worldwide came from renewable sources such as solar, wind, hydro and

Renewable Power Generation Costs in 2023

The new renewable capacity added since 2000 is estimated to have reduced electricity sector fuel costs in 2023 by at least USD 409 billion, showcasing the benefits renewable power can provide in terms

Renewables

Solar PV accounts for almost 80% of the global increase, followed by wind, hydropower, bioenergy and geothermal. In more than 80% of countries

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Latest Utilities Stock Investing Analysis | Seeking Alpha

Seeking Alpha's latest contributor opinion and analysis of the utilities sector. Click to discover utilities stock ideas, strategies, and analysis.

Bihar Targets 25 Lakh Rooftop Solar Homes Under PM Surya Ghar

Energy Sector Projects Worth ₹1,278 Crore Also Unveiled Alongside the rooftop solar initiative, Choudhary inaugurated energy sector development projects worth ₹1,278 crore through a

Renewable energy

Latest news and analysis about non-fossil fuel energy, including electric vehicles, hydrogen fuel cells, solar, wind and wave energy.

Electric Power Monthly

Monthly and yearly energy forecasts, analysis of energy topics, financial analysis, congressional reports. Financial market analysis and financial data for major energy companies.

Despite billions already spent on power, Nigeria to spend another

Despite billions already spent on the power sector, Nigeria plans to invest another \$11 billion in solar energy projects as part of efforts to boost electricity supply and expand generation ...

Coal – Global Energy Review 2025 – Analysis

The electricity sector continues to drive coal demand, accounting for two-thirds of global consumption. In 2024, global coal power generation grew by nearly 1% to

Executive summary – World Energy Investment 2025

Executive summary Despite elevated geopolitical tensions and economic uncertainty, this tenth edition of the IEA's World Energy Investment shows that

Short-Term Energy Outlook

Coal generation in our forecast declines by 2% from last summer. This decline is offset by an increase of 19% in utility-scale solar generation relative to

Solar PV Significantly Grew Globally in 2024, Bolstered by Cheaper ...

In the past three months, the International Energy Agency, the International Renewable Energy Agency, and BloombergNEF published preliminary data for the power sector in 2024. These

Renewables

Renewable sources of electricity generation continue to grow strongly around the world. Global capacity is expected to more than double by 2030,

Enlit World

Enlit brings you exclusive insights into every aspect of the energy sector through articles, videos, podcasts and directories. Join us for inspirational

2026 Renewable Energy Industry Outlook | Deloitte Insights

Beyond utility-scale wind and solar, phaseouts are reshaping other technologies. The residential solar 25D credit sunsets after 2025, pushing installers toward leasing, power purchase agreements

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.

BloombergNEF's New Energy Outlook 2026: Transition to Newer ...

BloombergNEF's New Energy Outlook 2026 reveals that recent, successive energy market shocks could be a boon for the energy transition as some countries look to decouple from

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