



The proportion of solar energy in power generation over the years

82% of U.S. energy comes from fossil fuels, 8.7% from nuclear, and 9.1% from renewable sources. In 2023, renewables surpassed coal in energy generation. 1 Wind and solar are the fastest growing renewable ...

Global solar photovoltaic capacity has grown from around 40 gigawatts in 2010 to approximately 2.2 terawatts in 2024. Only in that last year, installations increased by almost 40 percent. In...

Electricity generation by the U.S. electric power sector totaled about 4,260 billion kilowatthours (BkWh) in 2025. In our latest Short-Term Energy Outlook (STEO), we expect U.S. electricity generation will ...

For solar PV, wind and bioenergy for power, deployment has been revised downwards. Solar PV accounts for over 70% of the absolute reduction, mainly from utility-scale projects, while offshore wind demonstrates the ...

Clean power surpassed 40% of global electricity generation in 2024, driven by record growth in renewables, especially solar. Heatwaves contributed to high growth in electricity demand which resulted in a ...

The present review study, through a detailed and systematic literature survey, summarizes the world solar energy status along with the published solar energy potential assessment articles for 235 ...

Research published in the journal Nature Energy measures the EROI (Energy Return on Investment) of all major sources of power generation. This data shows how much energy is offset in the ...

This dataset contains yearly electricity generation, capacity, emissions, import and demand data for over 200 geographies. You can find more about Ember's methodology in this document.

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This report uses data from the EIA to analyze solar and wind capacity and generation over the past decade (2014 to 2023) in all 50 states and the District of Columbia.

The previous editions and complete electricity generation and capacity dataset from 2000 onwards are available for download on the Data and Statistics web pages.



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