



Solar power generation demand map

Are solar and wind outpacing global electricity demand?

Solar and wind aren't just expanding; they're outpacing global electricity demand itself. Solar generation jumped 498 TWh (+31%) compared to the same period last year, already topping all the solar power produced in 2024. Wind added another 137 TWh (+7.6%).

Does solar power have a potential for countries & regions?

A new report provides data on the solar PV power potential for countries and regions. The potential for electricity generation from solar photovoltaic sources in most countries dwarfs their current electricity demand.

How has solar impacted global power generation?

Regarding global power generation, solar nearly doubled its share over the past 3 years, growing by 1.3 percentage points only last year to a 7% share in the world's electricity mix. This growth continued to drive renewable penetration and pushed additions of conventional electricity sources to a new low.

What will the global power system look like in the next decade?

The global power system will be dominated by two mega-trends over the rest of the decade: solar's share in the electricity mix rising rapidly as it continues its exponential growth, and robust electricity demand growth as electricity replaces other forms of energy powering the global economy.

The Global Solar Atlas provides a summary of solar power potential and solar resources globally. It is provided by the World Bank Group as a free service to governments, developers and ...

Solar power generation, 2025 Electricity generation from solar, measured in terawatt-hours.

ISEP Energy Chart provides interactive graphs on Electricity Generation and Demand, Renewable Energy Share in Electricity, Cumulative Installed Capacity (Electricity or Heat), and Bar Chart Race ...

The Global Solar Atlas, in addition to a series of global, regional and country GIS data layers and poster maps, has been developed to support the scale-up of solar power in countries ...

The Global Solar Power Tracker is composed of worldwide facility-level data on utility-scale (1 MW+) solar photovoltaic (PV) and solar thermal facilities, as well as country-aggregated distributed (<1 ...

The year 2024 was a true landmark year for solar power. Global solar installations reached nearly 600 GW - an impressive 33% increase over the previous year - setting yet another ...

Solar and wind growth met all new power demand in 2025, pushing fossil generation to stall for the first time since the pandemic.

Record renewables growth led by solar helped push clean power past 40% of global electricity in 2024, but



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heatwave-related demand spikes led to a small increase in fossil generation.

The potential for clean, carbon-free electricity generation from solar photovoltaic (PV) sources in most countries dwarfs their current electricity demand. Around 20% of the global ...

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