



# Current share of solar power generation

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 is the contribution of solar energy to global electricity production?

While the contribution of solar energy to global electricity production remains generally low at 3.6%, it has firmly established itself among other renewable energy technologies, comprising nearly 31% of the total installed renewable energy capacity in 2022 (IRENA, 2023).

How many homes are using solar energy?

Over 7.3 million homes in the U.S. are using solar power. The U.S. has enough renewable energy resources to produce 100 times its yearly electricity needs. Every day, the Earth gets about 174 petawatts of solar energy. By 2050, solar energy is expected to provide half (50%) of the world's electricity.

Is the world's solar power consumption increasing?

Based on several indicators, the world's solar power consumption appears to be increasing. 2023 saw significant growth in solar energy, setting a production record at 346 GW. Of total renewable electricity capacity additions of 507 GW, nearly 75% came from solar PV additions.

Share of electricity production from renewables, 2025 Renewables include solar, wind, hydropower, bioenergy, geothermal, wave, and tidal sources.

Global solar energy outlook - statistics & facts In the last few years, solar energy has been the main driver for renewable energy growth worldwide.

Global energy demand is growing, and solar energy covers an ever-increasing share of it. Although coal (35 percent) and gas (22 percent) still account for the largest share of electricity ...

Weight of solar and wind in electricity production data. Data for solar and wind renewable energies in electricity production available in a map and excel file by country level.

The share of renewables in global electricity generation is projected to rise from 32% in 2024 to 43% by 2030, while the share of variable renewable energy sources set to almost double to 27%.

As of 2023, solar energy was the world's third-largest renewable energy technology, behind wind and hydropower -- nearly 5.5% of global electricity generation came from solar energy ...

Share of electricity production from solar, 2025 Measured as a percentage of total electricity produced in the country or region.



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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 ...

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 ...

Solar energy users save around 35 tons of CO2 emissions and 75 million barrels of oil each year. Utility-scale PV power plants made up 70% of global solar electricity generation in 2022.

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