



Solar Power Generation Statistics Report

How will solar PV & wind impact global electricity generation?

The share of solar PV and wind in global electricity generation is forecast to double to 25% in 2028 in our main case. This rapid expansion in the next five years will have implications for power systems worldwide.

How does new solar power capacity affect generation growth?

Wind and solar developers often bring their projects on line at the end of the calendar year. So, the new capacity tends to affect generation growth trends for the following year. Solar is the fastest-growing renewable source because of the larger capacity additions and favorable tax credits policies.

Which country has the most solar PV capacity in 2022?

China continues to lead in terms of solar PV capacity additions, with 100 GW added in 2022, almost 60% more than in 2021. The 14th Five-Year Plan for Renewable Energy, released in 2022, provides ambitious targets for deployment, which should drive further capacity growth in the coming years.

What is the global solar PV market like in 2022?

The solar PV market is dominated by crystalline silicon technology, for which the production process consists of four main steps: In 2022, global solar PV manufacturing capacity increased by over 70% to reach 450 GW for polysilicon and up to 640 GW for modules, with China accounting for more than 95% of new facilities throughout the supply chain.

How many households have a solar system?

Still, only 2.7% of households own or lease a PV system (or 4.4% of households living in single-family detached structures). However, solar penetration varies by location. Hawaii, California, and Arizona have residential systems on an estimated 33%, 20%, and 12% of households living in single-family detached structures.

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