



Fifty-one years of solar power generation

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Change in solar and wind energy generation relative to the previous year, measured in terawatt-hours of primary energy using the substitution method.

Since the first U.S. solar power plant opened in 1982, thousands more have been built, bringing the country's solar capacity today to more than 100 gigawatts. In 2021, solar energy made up...

Learn more about the long history of solar power and how modern public policy choices can change how the technology is implemented.

OverviewHistory of market developmentSolar PV nameplate capacityCurrent statusHistory of leading countriesSee alsoExternal linksThe average price per watt dropped drastically for solar cells in the decades leading up to 2017. While in 1977 prices for crystalline silicon cells were about \$77 per watt, average spot prices in August 2018 were as low as \$0.13 per watt or nearly 600 times less than forty years ago. Prices for thin-film solar cells and for c-Si solar panels were around \$.60 per watt. Module and cell prices declined even further after 2014 (see pr...

With the way the cost of solar has plummeted in the past decade, it's easy to forget that going solar had a completely different meaning even just 15 ...

The Solar Energy Industries Association (SEIA) has been at the forefront of the solar revolution for the last 50 years. As SEIA continues to fight for the expansion of reliable, low-cost solar ...

Long before the first Earth Day was celebrated on April 22, 1970, generating awareness about the environment and support for environmental protection, ...

In the next three decades, the solar PV field can advance to become the second prominent generation source by constructing more solar farms, allowing countries to generate ...



Fifty-one years of solar power generation

This timeline features the key innovations that have advanced the solar industry in the United States. Learn more about these key events from 1955 to present.

In many countries, the cost of solar-generated electricity is already on par with the cost of traditional electricity generation. This has led to several decades of global, exponentially increasing ...

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