

Comparison between Denmark and solar power generation



Overview

Solar power in Denmark amounts to 4,832 MW of grid-connected PV capacity at the end of September 2025, and contributes to a government target to use 100% renewable electricity by 2030 and 100% renewable energy by 2050. Solar power produced 11. 2% of. In 2025, Denmark achieved an impressive milestone with more than 92% of its electricity coming from low-carbon sources. Wind energy leads the pack, responsible for roughly 60% of the country's electricity, showcasing Denmark's strong commitment to harnessing this clean resource. These renewable energy sources are eather-dependent and provide fluctuating energy supply. At the same time, the costs associated with producing electricity from solar PV (photovoltaics) have dropped significantly in recent years, and solar PV are now one of the most cost-effective and competitive ways of producing. Utility-scale solar projects in Sweden, Finland and Denmark are flourishing, while battery storage and AI are reshaping what's possible. Image: Alight Forget any preconceptions about solar power in the Nordics; the cold, seasonally dark region is fast becoming a solar success story. Now Denmark produces almost twice as much wind energy per capita as the.



Article Content

Denmark generates a larger share of its electricity from

In 2023, wind power generated nearly 60% of Denmark's electricity. This made Denmark the country with the highest share of wind in its electricity

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Denmark is committed to a fossil free energy system by 2050. But how much of the energy used in Denmark already comes from renewable sources? Find out here.

[Scaling solar in the Nordics – and lessons for Europe](#)

The question for solar in Northern Europe is no longer whether it works; it's how quickly and responsibly we can scale it. The journey may be complex and technical, but its momentum is

[Levelized cost of energy for renewables, World](#)

The average cost per unit of energy generated across the lifetime of a new power plant. This data is expressed in US dollars per kilowatt-hour. It is adjusted for

"Yes to fields of wheat, no to fields of iron": how the world's ...

Solar tripled from 4% of Danish power production in 2021 to 13% in 2025. And a handful of villages have found themselves surrounded by silicon. Opponents of solar farms say the...

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[Report 2023 Denmark](#)

Denmark continues to be a global leader in variable renewable integration. 2023 was a record year for solar and wind energy generation, providing 64% of demand compared to 60% the year before¹.

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Press Highlights Press Release 19 May 2026 Siemens launches AI-powered service to further drive autonomous building operations New AI-enabled managed service – Asset Performance

Technology: Solar PV and wind – Global Energy Review 2026 –

Solar PV accounted for more than three-quarters of new renewable capacity additions worldwide, followed by wind (20%). The remaining share was made up by hydropower, bioenergy, geothermal,

Clean and renewable energy | Denmark leads the way

Energy from the Sun and the Earth Solar power is another renewable energy source in Denmark. Solar panels are used to heat up buildings and produce district

Solar power in Denmark

Solar power provided 1.4 TWh, or the equivalent of 4.3% or 3.6% of Danish electricity consumption in 2021. In 2018, the number was 2.8 percent. Denmark has lower solar insolation than many countries closer to Equator, but lower temperatures increase production. Modern solar cells decrease production by 0.25% per year. 2020

ENERGY PROFILE Denmark

Indicators of renewable resource potential Solar PV: Solar resource potential has been divided into seven classes, each representing a range of annual PV output per unit of capacity (kWh/kWp/yr).

Solar Power Denmark: A Bright Future for Clean Energy

Denmark's path to clean energy has long been associated with wind, but solar is quickly catching up. The country's unique commitment to sustainability has created fertile ground for solar

Success Stories Denmark VARALE RENEWABLE ENERGY DEVELOPMENT

Over the last few years Denmark has increased its efforts to accelerate the expansion of wind and solar capacity. In 2022, in response to the energy and security crisis, the Danish government decided to

11 countries leading the charge on renewable energy

Which countries have the most wind and solar power? Australia, like many countries around the world, is relying mostly on a combination of wind,

Denmark Solar PV Market Analysis by Size, Installed Capacity, Power ...

Denmark Solar PV Market Analysis by Size, Installed Capacity, Power Generation, Regulations, Key Players and Forecast to 2035 Powered by All the vital news, analysis, and

Executive summary – Denmark 2023 – Analysis

Thanks to the integration with Nordic and European continental power systems, Denmark is well placed to advance the decarbonisation of its economy and become a major exporter. Denmark's deployment

European electricity prices and costs

This data tool compares European electricity prices, carbon prices and the cost of generating electricity using fossil fuels and renewables. Where possible, data is provided by country.

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Solar power in Denmark

Denmark has lower solar insolation than many countries closer to Equator, but lower temperatures increase production. Modern solar cells decrease production by 0.25% per year.

Solar power in Denmark

Solar power in Denmark amounts to 4,208 MW of grid-connected PV capacity at the end of March 2025, and contributes to a government target to use 100% renewable electricity by 2030 and 100%

Another Year, Another Record In Denmark's Renewable Energy

In a few years, the vast majority of Denmark's electricity will come from wind and solar, and there will be a large spread between production and consumption — both over geography and time.

Another record-breaking year for solar and wind power

In 2023, Denmark witnessed an increase in renewable energy production, with solar and wind power collectively accounting for 63% of the

Facts about solar energy

Facts about solar energy Facts about solar energy in Denmark. Learn more about the technical aspects and the role of solar energy today. There is great potential for harnessing solar energy in Denmark.

Facts about solar energy

Solar energy, therefore, plays a key role in realizing Denmark's ambition of covering our net electricity consumption with 100% renewable energy by 2030. Every quarter, the Danish Energy Agency

Electricity in Denmark

The most important key figures provide you with a compact summary of the topic of "Electricity in Denmark" and take you straight to the corresponding statistics.

Contact Us

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